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INFLUENZA-PREVALENCE IN THE UNITED STATES.

The peak of the present wave of epidemic influenza definitely has passed in practically all sections of the United States. According to morbidity reports furnished to the Public Health Service by State health departments, in only 3 of the 40 States for which fairly regular reports are available, were increases reported for the week ended February 21. The States for which no decreases in the number of cases were reported were Georgia, Vermont, and Oregon; while in Maine, New York (exclusive of New York City), and Louisiana the decreases indicated were relatively small.

Table 1.—Influenza case reports. Number of cases of influenza occurring in various States as reported to the Public Health Service by State health departments.

[States omitted are those from which no reports have been received. Blank spaces indicate that no report was received for the week. These reports are preliminary and subject to change.]

State.	Average per week in De- cember.		s report	ed week	ended Ja	anuary-		Cases reported week ended February—			
	1919.	3	1 10	1 17	24	1 . 31	7	1 14	21		
Alabama	5				. 8	203	1,296	3,236	2,366		
Arkansas	26	52	35	53	179	595	5,666	6,599	2,793		
California	24	14	32	322	1.604	7,133	13,660	11,887	7,420		
Connecticut	5	1	1	14	1,123	4,664	5,666	4,868	2,771		
Delaware		1	1		5	21	83	78	43		
District of Columbia		23	9	126	1,216	1.616	357	298	104		
Florida		14	2	10	184	1.547	1.581	1,735	1,420		
Georgia		10	27	27	95	617	3, 256	5,411	7,809		
Idaho			88	270	922	2,783	2,394	,			
Illinois	55	60	73	3.251	14, 805	29, 156	30,330	23,037	7,237		
Indiana		31	18	44	1.714	20,100	7,811	7,503	3,904		
lowa		1	10	30	644	3,960	5,070	1,981	869		
Kansas.		22	17	45	1.130	8,582	16,960	17,699	10,026		
Kentucky		41	45	75	170	878	2,536	6,067	20,020		
Louisiana		32	52	27	123	763	1,901	3,690	3,153		
Maine		7	1	4		0.00	936	3,942	3,702		
Maryland 1					******	994	4, 935	8,942	4,758		
Massachusetts	31	41	40	5.4		3,730	9,731	12,389	4,375		
Michigan	31					3, 130			6,672		
Michigan Minnesota		*****	**>		*******		14, 201	13,470	4,213		
						5,775	11,397	7,555			
Missouri					*******	4,043	5,359	1,696	466		
Mississippi		******			*******	1 000	3 2, 761	4,014	3,332		
Montana		_	0	1	67	1,022	1,847	1,650	1,400		
Nebraska			2	1	154	1,815	3,998	6,048	3,272		
New Hampshire							610				
New Jersey		22	23	98	753	7,365	9,603	5,807	2,798		
New Mexico	3	2	8	4	61	260	1,576	1,166	632		
New York (exclusive of New											
York City)	36	52	31	61	555	4, 755	11,616	13, 259	11,304		
New York City	58	42	100	384	5,690	30,456	21,388	8,091	3,030		
North Carolina						3, 356	12,892	25,571	14,439		
North Dakota							946	497	8178		
Ohio							10,479				
Oregon							1,042	1,318	1,971		
Pennsylvania							16,090	13,324	9,365		
South Carolina						1,661	3 3, 179	3,916	2,846		
South Dakota	1			3	118		5,042	4,976	3,017		
Tennessee							2,331	21,432			
Texas							11,265	6,788	1.035		
Utah							1,489	228	96		
Vermont Virginia	1				25	89	272	796	1.314		
Virginia						3.097	6,318	2,934	1.512		
Washington	1				12	902	6,451	6,426	4,596		
Washington						1.667	4,732	6,308	\$ 1.848		
Wisconsin	3	6	3	67	1,944	6,739	14, 328	10,310	6,274		
Wisconsin Wyoming	0			0.	-,044	1.372	44,040	.0,010	0,211		
Total			210	4 091	29 001	-	007 704	020 040	120 000		
	433	476	618		33,601	141,009		236,942			
Number of States reporting.	25	20	22	22	. 24	31	43	40	- 38		

Week ended Friday.

² Five days only.

³ Six days only.

As predicted in the Public Health Reports of February 20, the peak of mortality from influenza and pneumonia (all forms) in the group of 46 large cities included in the Weekly Health Index of the Bureau of the Census was reached in the week ended February 14. Considering these cities as a single group, the excess mortality rate (over that of a normal year in the corresponding season) was 853 for the week ended February 21, as compared with 1,322 for the preceding week, 1,241 for the week ended February 7, and 746 for the week ended January 31.

Table A.—Comparison of the excess 1 annual mortality rate per 100,000 from influenza and pneumonia (all forms) by weeks during the 1920 epidemic with that for corresponding weeks in the 1918 epidemic in cities included in the Weekly Health Index of the Bureau of the Census, considered as a whole.

Week ended—	Excess over correspond- ing week of median year.	Week ended	Excess over correspond- ing week of median year.
Sept. 14	1,028 2,557 4,592 4,695 3,332	Jan. 3	56 55 27 184 746 1,241 1,322 853

¹ Excess over the mortality rate from the same causes in the corresponding week of the median year in the period 1910-1916. The weekly rates for the median year have been approximated by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city and then by reading from the curve the indicated median rate at the midpoint for each week. The excess has been found by subtracting this median rate from the actual rate for the corresponding weeks in 1918 and 1920.

If the curves of the two epidemic waves be plotted on arithlog paper and fitted together, it will be noted that they are strikingly similar so far, especially if the excess over what apparently is the "norm" for 1920 is taken into consideration. Placing the peaks together and computing the ratios of the weekly excess rates for the 1920 wave to that of corresponding weeks in the 1918 wave, it is seen that for the five highest weeks (ended Jan. 24–Feb. 21) the mortality in these large cities chargeable to the present epidemic is so far under 30 per cent of what it was in 1918.

For the cities in which the peak of excess mortality from influenza and pneumonia (all forms) definitely appears to have been reached, the following table has been prepared. It should be noted that the data for cities appearing in the Public Health Reports for the two weeks preceding this issue have been considerably revised.

Table B .- Excess of mortality 1 from influenza and pneumonia (all forms) in peak week of 1920 epidemic compared with that of 1918 epidemic in certain cities.

		n which ecurred.	Excess annu 100,000 – pe	Per cent which 192) peak week		
City.	1918	1920	1918	1920	excess rate is of 1918 peak week excess rate.	
Chicago, Ill	Oct. 26 Oct. 19	Jan. 31	4, 620 7, 989	1,886 2,072	4 2	
Dayton, Ohio Kansas City, Mo Milwaukee, Wis		Feb. 7 do	5,352 3,173 1,915	1,611 3,362 1,927	36 10: 10:	
Minneapolis, Minn New York, N. Y Oakland, Calif. St. Louis, Mo.	do Nov. 2	do do do	1, 963 5, 091 5, 679 1, 581	2,065 1,705 1,196 2,399	10/ 34 21 150	
St. Paul, Minn Syracuse, N. Y Toledo, Ohio	Nov. 16 Oct. 19 Oct. 26	do do	2, 664 8, 085 2, 642	1,465 2,651 865	5.7 32 33	
Albany, N. Y Baltimore, Md Boston, Mass 'ambridge, Mass	Oct. 19 Oct. 5	Feb. 14 do do	8, 535 10, 419 7, 925 6, 461	980 1,745 1,399 1,058	11 12 12	
Cleveland, Ohio	Nov. 2 Oct. 26	do do	4, 282 2, 623 (3)	1,483 2,519 1,285	(a)	
Indianapolis, Ind	Oct. 19 Oct. 26 Oct. 19 Oct. 26	do do do	2, 210 3, 770 6, 042 5, 123	2,004 874 1,836 1,503	91 23 30 29	
New Haven, Conn	do Oct. 19	do do	6,033 9,156 4,547	1,630 492 1,802	27	
Pittsburgh, Pa. Providence, R. I. Richmond, Va. Rochester, N. V	Oct. 19	do do	6, 726 4, 948 6, 275 4, 077	3, 297 1, 421 857 824	49 29 14 20	
San Francisco, Calif	Nov. 2	do	7, 927	1,341	17	

¹ Excess over the mortality rate from same causes in the corresponding week of the median year in the period 1910-1916. The weekly rates for the median year have been approximated by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city and then by reading from the curve the indicated median rate at the mid-point for each week. The excess has been found by subtracting this median rate from the actual rate for the corresponding week in 1918 and 1920.

² The percentages appearing in a similar table in the Public Health Reports for Feb. 29 have been considerably revised and a number of corrections have been made in the table above.

It will be noted that the peak of mortality in this epidemic wave apparently has definitely occurred in 31 out of 40 cities for which data are available. In 8 cities-Atlanta, Birmingham, Buffalo, Fall River, Lowell, Nashville, Philadelphia, and Worcester-further increases were reported for the week ended February 21. plete reports were received from Los Angeles, Oakland, and Jersey City, which cities apparently were at or near their peaks.

The very wide variations in the ratios of the excess peak rates for 1920 to those for 1918 for the different cities (ranging from 5 to 152) are especially interesting and suggest correlations of possible significance from more than one point of view. In a later publication, where more complete data will be available, some analyses of these differences will be presented.

Note already has been made in a preliminary way of the quite definite geographical movement of the epidemic at successive time intervals. (Public Health Reports, Feb. 20, p. 386.) The later reports afford further evidence of this movement along the lines already mentioned.

In Table II is given the number of deaths from influenza and pneumonia (all forms) by weeks in January and February to date, as reported in the Weekly Health Index of the Bureau of the Census.

Table II.—Deaths from influenza and pneumonia (all forms) in certain large cities, by weeks, in January and February, 1920.

				Week o	ended -			
City.	Jan. 3.	Jan. 19.	Jan. 17.	Jan. 24.	Jan. 31.	Feb. 7.	Feb. 14.	Feb. 21.
Albany, N. Y.	6	3	2	3	14	19	29	2
Atlanta, Ga	16	1 17	1 10	110	15	32	1 68	18
Baltimore, Md	30	20	35	24	59	122	268	00
Birmingham, Ala	11	111	1.8	16	14	22	18	1 23
Boston, Mass	24	28	28	45	85	158	255	21
Burfalo N. Y	13	10	7	19	17	67	141	14
Cambridge, Mass	4	8	7	8	14	22	28	2
Chicago, Ill	98	107	153	172	1.109	1,005	494	24
Cincinnati, Ohio	18	14	12	17	25	38	62	8
Cleveland, Ohio	28	21	25	26	41	158	258	17
Columbus, Ohio	5	15	9	8	22	59	118	6
Dayton, Ohio	7	4	7	13	16	47	32	2
	15	21	18	24	49		160	6
Denver, Colo	3	7	10	5		159	16	0
Fall River, Mass	3	i		2	3 6	31	37	44
Grand Rapids, Mich	13	18	4	21	36			2 3 7
Indianapolis, Ind			1 16			92	124	43
Jersey City, N. J	12	14	14	24	64	(2)	(1)	71
Kansas City, Mo	12	13	29	96	120	220	167	7
Los Angeles, Calif		16		19	22	42	88	(2)
Louisville, Ky	9	10	10	9	18	40	52	45
Lowell, Mass	3	5	4	2	7	12	10	30
Memphis, Tenn	15	12	12	11	10	22	64	6
Milwaukee, Wis	15	25	1 13	45	141	184	121	41
Minneapolis, Minn	20	12	10	9	63	168	125	3 35
Nashville, Tenn	4	6	11	6	12	8	23	47
Newark, N. J	15	17	14	30	55	116	142	90
New Haven, Conn	11	6	8	10	19	20	60	a 34
New Orleans, La	18	27	27	27	32	36	62	2 31
New York, N. Y	195	218	261	511	1,308	1,988	1,796	987
Oakland, Calif	7	4	S	20	24	- 55	54	(2)
Omaha, Nebr	5	4 [7	13	45	62	73	32
Philadelphia, Pa	64	55	75	108	153	289	564	620
Pittsburgh, Pa	55	47	53	55	76	168	417	290
Portland, Oreg	24	113	18	19	1 15	21	57	(2)
Providence, R. 1	6	12	13	8	14	39	88	82
Riebmond, Va	6	2	9	6	21	35	38	28
Rochester, N. Y	8	13	7	12	23	50	52	27
St. Louis, Mo	47	57	41	73	236	401	282	129
St. Paul, Minn	7	4	(2)	26	72	80	63	(2)
San Francisco, Calif	20	14	26	48	59	115	137	113
Seattle, Wash	9	12	4	7 1	12	32	98	78
Spokane, Wash	0	4	3	3	12	32	64	3 21
Syracuse, N. Y	6	9	8	10	31	89	78	29
Foledo, Ohio	8	9	8	9	18	54	50	51
Washington, D. C	32	22	27	81	181	164	92	55
Worcester, Mass	5	10	9	7	14	15 1	44	52

¹ Deaths from pneumonia (all forms) only.

In Table III is presented the annual mortality rate per 100,000 from influenza and pneumonia (all forms) by weeks in January and February to date for those cities in the Weekly Health Index for which population estimates are available. For convenience in comparison the "normal" annual rate from these causes in the

² No report.

³ Deaths from influenza only.

corresponding weeks is also shown in Table III. The method by which this "normal" rate was found is explained in the footnotes to the table.

Table III—Annual death rate per 100,000 from influenza and pneumonia (all forms) by weeks ended Jan. 3 to Feb. 21, 1920, and for corresponding weeks of the median year in the period 1910-1916.

	In me	edian y	ear of t	he per	od 191			1	920.			
City.			Week	ended-	-				Week	ended	-	
	Jan. 17.	Jan. 24,	Jan. 31.	Feb. 7.	Feb. 14.	Feb. 21.	Jan. 17.	Jan. 21.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.
Albany, N. Y	407	406	399	387	370	346	93	139	649	880	1,350	1.06
Atlanta, Ga	225	228	239	253	276	302	2 258	2 258		827	21,758	22,30
Baltimore, Md	368	367	358	345	341	340	272	187	459	949	2,086	1,79
Birmingham, Ala	294	307	325	337	344	346	2 211	422	369	580	475	1,55
Boston, Mass	300	300	298	296	294	297	186	299	564	1.049	1,693	1,43
Buffalo, N. Y	211	212	214	216	220	226	77	209	187	738	1,554	1,59
Cambridge, Mass	266	267	264	258	252	252	328	374	655	1,029	1,310	1,070
Chicago, III	344	344	341	337	333	330	307	948	2,227	2,018	993	48
Cincinnati, Ohio	258	266	271	275	276	276	150	212	312	474	773	1,01
Cleveland, Ohio	174	173	173	174	177	185	161	167	264	1,016	1,660	1,13
Columbus, Ohio	214	212	210	210	212	219	208	185	509	1,366	2,731	1,52
Dayton, Ohio	268	270	269	265	260	254	279	519	1,836	1,876	1,277	955
Fall River, Mass	307	344	394	435	450	452	406	203	122	203	650	1,013
Grand Rapids, Mich	152	156	154	146	139	137	154	77	231	1,193	1,424	1,23:
Indianapolis, Ind	276	276	259	233	223	222	2 287	377	646	1,652	2,227	1,29
Jersey City, N. J	296	295	292	289	287	287	229	393	1,047	(3)	(3)	1,276
Kansas City, Mo	261	275	286	294	300	300	482	1,595	1,994	3,656	2,775	1,23
Los Angeles, Calif	188	187	183	174	161	145	165	174	202	385	807	(3)
Louisville, Ky	228	234	236.	239	243	253	215	193	387	859	1,117	1,033
Lowell, Mass	313	316	308	291	271	264	191	96	335	574	478	1,721
Memphis, Tenn	330	330	327	322	320	322	404	371	337	741	2,156	2,05
Milwaukee, Wis	181	185	187	189	190	******	2 149	517	1,621	2,116	1,391	471
Minneapolis, Minn	220	228	332	220	206	183	136	122		2,285	1,700	4 517
Nashville, Tenn Newark, N. J.	312 276	317 274	261	367 243	393 224	418 220	481 170	262	525	350	1,006	2,056
New Haven, Conn	438	440	432	402	390	388	269	365	669	1,411 673	2,020	1,13!
New Orleans, La	318	333	344	350	354	354	368	368	436	491	846	41,143
New York, N. Y	265	270	276	282	290	298	261	511	1,308	1,987	1,795	987
Oakland, Calif.	174	165	153	143	130	120	195	487	584	1,339	1,315	(3)
Omaha, Nebr	272	281	295	305	310	310	202	376		1,793	2,112	926
Philadelphia, Pa	286	291	290	289	286	284	222	320	453	856	1,670	1.83
Pittsburgh, Pa	391	394	388	377	368	367	466	483	668	1,476	3,665	2,549
Providence, R. I	290	391	309	314	320	322	257	158	277	771	1,741	1,62
Richmond, Va	362	369	373	375	376	377	292	195	681	1.136	1,233	908
Rochester, N. Y	225	225	218	206	200	198	138	236	453	984	1.024	532
St. Louis, Mo	313	311	300	282	257	244	274	488		2,681	1,885	863
St. Paul, Minn	163	162	159	154	150	150	(3)	526	1,457	1,619	1,275	(3)
San Francisco, Calif	216	204	.181	162	152	150	283	523	643	1,253	1,493	1,231
Syracuse, N. Y	199	208	217	224	229	230	258	323	1,001	2,875	2,520	937
Foledo, Ohio	176	192	202	209	214	218	159	180	358	1,074	994	1,014
Washington, D. C	262	270	278	284	293	305	351	1,052		2,129	1,194	714
Worcester, Mass	320	333	311	346	348	346	270	210	420	450	1,321	1,561

¹ The weekly rate for the median year in the period 1910-1916 is presented as a "normal" rate. It is, of course, only approximated, and was found by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city, and then by reading from the curve the indicated median rate at the midpoint of each week.

Table IV is based on Table III and shows the excess of the annual death rate from influenza and pneumonia (all forms), by weeks, in January and February to date, over the seasonal "normal" in the same cities.

² For pneumonia only.

No report.
Influenza only.

Table IV.—Excess of annual death rate per 100,000 from influenza and pneumonia (all forms), by weeks, Jan. 3 to Feb. 21, 1920, over that in corresponding week of median year (1910-1916) in certain large cities.

G11	Excess	over corn	esponding	week of m	edian year	r—Annual	rate per l	00,000.
City.	Jan. 3.	Jan. 10.	Jan. 17.	Jan. 24.	Jan. 31.	Feb. 7.	Feb. 14.	Feb. 21.
Albany, N. Y.	- 54	-251	-314	-267	250	493	980	71
Atlanta, Ga	2 - 85	1 209	1 33	2 30	149	574	21,482	21.99
Baltimore, Md	-106	-204	- 96	-180	101	604	1,745	1,45
Birmingham, Ala	- 5	2- 1	1-83	115	44	243	131	1,21
Boston, Mass	-131	-113	-114	- 1	266	753	1,399	1,13
Buffalo, N. Y	- 69	-102	-134	- 3	27	522	1,334	1,37
Cambridge, Mass	- 68	111	62	107	391	771	1,058	82
Chicago, Ill	-102	-118	- 37	604	1,886	1,681	660	15
Cincinnati, Ohio	- 8	- 71	-108	54	41	199	497	73
leveland, Ohio	0	41	- 13	- 6	91	843	1,483	95
Columbus, Ohio	-103	130	- 6	- 27	299	1,156	2,519	1,30
Dayton, Ohio	51	-101	11	249	1,567	1,611	1,017	70
Fall River, Mass	-128	5	99	-141	-272	-232	200	56
Grand Rapids, Mich.	- 15	-105	2	- 79	77	1,047	1,285	1,09
ndianapolis, Ind	F-168	62	2 11	101	587	1,419	2,004	1,07
ersey City, N. J	- 90	- 64	- 67	98	755	(8)	(8)	98
Kansas City, Mo	- 31	- 31	221	1,320	1,708	3,362	2,475	93
os Angeles, Calif	- 16	- 39	- 23	- 13	19	211	646	(3)
ouisville, Ky	- 12	- 3	- 13	- 41	151	620	874	77
owell, Mass.	-145	- 66	-122	-220	27	283	207	1,45
demphis, Tenn	193	81	74	41	10	419	1,836	1,73
Milwaukee, Wis	3	111	3 - 32	332	1,434	1,927	1,201	27
Minneapolis, Minn	88	41	- 84	-106	629	2,065	1,494	4 33
Nashvifle, Tenn	-130	47	169	- 55	193	- 17	613	1,63
Newark, N. J	- 77	- 64	-106	91	408	1,168	1,503	91
New Haven, Conn	0	-222	-169	103	208	271	1,630	4 75
New Orleans, La	- 36	67	50	35	92	141	492	4 69
New York, N. Y	61	- 42	- 4	241	1,032	1,705	1,505	68
Dakland, Calif	- 16	- 84	21	395	431	1, 196	1, 185	(3)
Dmaha, Nebr	-117	-151	- 70	95	1,007	1,488	1,802	610
Philadelphia, Pa	- 76	-116	- 64	29	163	567	1,384	1,55
ittsburgh, Pa	120	31	75	89	280	1,099	3,297	2,18
rovidence, R. I	-127	- 34	- 33	143	- 32	457	1,421	1,30
Richmond, Va	-130	-280	- 70	- 74	308	761	857	53
Richmond, Va Rochester, N. Y	41	38	- 87	11	235	778	824	334
t. Louis, Mo	15	72	- 39	177	1,278	2,399	1,628	618
t. Paul, Minn	- 12	- 79	(*)	364	1,298	1,465	1,125	(3)
an Francisco, Calif.	- 4	- 68	67	319	462	1,091	1,341	1,081
yracuse, N. Y	10	100	59	115	784	2,651	2,291	707
folede, Ohio	19	24	- 17	- 12	156	865	780	796
Vashington, D. C	175	34	89	782	2,072	1,845	901	409
Vorcester, Mass	-117	1	- 50	-123	79	104	973	1,215

¹ The weekly rates for the median year in the period (1910-1916) have been approximated by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city, and then by reading from the curve the indicated median rate at the midpoint for each week. The excess has been found by subtracting this median rate from the actual rate for each week in 1920. When the difference is "minus" it is so indicated.

3 No report.
4 For influenza only.

In order to facilitate the comparison of the present epidemic in the cities included in the Weekly Health Index with the epidemic of 1918 for the same cities, the excess mortality rate from influenza and pneumonia (all forms) by weeks, from September 8 to November 30, 1918, is shown. These excess rates may be compared with those given in Table IV. It should be noted that the excess rates as computed in Tables IV and V are only approximated, but they are believed to be sufficiently accurate to afford a fair basis for determining the mortality from influenza and pneumonia (all forms) which properly may be attributed to epidemic conditions.

² For pneumonia only.

Table V.—Excess of annual death rate per 100,000 from influenza and pneumonia (all forms), by weeks, Sept. 8 to Nov. 30, 1918, over that in corresponding week of median year (1910–1916) in 42 large cities.¹

City.	Sept. 14.	Sept.	Sept. 28.	Oct. 5.	Oct. 12.	Oct. 19.	Oct. 26.	Nov. 2.	Nov. 9.	Nov. 16.	Nov. 23.	Nov. 30.
Albany, N. Y	37		31	29	2,018	5,025	8, 535	7,087	2,300	800	41	488
Atlanta, Ga	110		15	82	666	1,972	2,471	849	633	499	402	643
Baltimore, Md	-37	-50	43	794		10, 419		2,915	953	189	53	63
Birmingham, Ala	-23	-26	-33	322	1,493		3,369	2,095	1,061	1,056	990	1,694
Boston, Mass	188	1,634	5,015	7,925	6,680	3,765	1,350	753	343	143	172	
Buffalo, N. Y	17	56	96	444	1,892	5,752	7,880	4,894	1,723	743	217	216
Cambridge, Mass	253	109	4,829	6, 461	5, 285	2,845	867	759	189	262	248	149
Chicago, Ill	-53	-50	79	728	1,988	4, 105	4,620	2,801	1,316	600	305	223
Cincinnati, Ohio	- 1	-21	- 4	137	749	2, 291	3,386	2,957	1,882	1.046	1, 137	997
Cleveland, Ohio	-26	- 9	- 2	44	177	928	2,818	4, 282	3, 256	2, 132	1,403	1.113
Columbus, Ohio	-28	40	83	170	579	1,613	2,623	2,084	1,057	721	860	
Darton, Ohio	33	- 9	23	132	1. 155	5, 248	5, 352		2,535	688	45	359
Fall River, Mass		264	715	3,863	8,095		3,863	1,533	869	447	267	128
Grand Rapids, Mich					.,	.,	9,000	2,000	-	1.059	788	628
Indianapolis, Ind	- 6	44	111	356	745	2, 210	1,968	1,402	926	735	967	1,653
Jersey City, N. J	-65	- 2	242	973	3,666	-,	6,823	2, 202	0.00	100		*,
Kansas City, Mo	28		103	47	1,521	2,713	3, 117	3, 173	2, 177	1.198	921	1,461
Los Angeles, Calif	36	-14	-42	70	576	1, 144	2,625	3, 435			1,688	1,405
Louisville, Ky	20	143	26	228	1,889	3,764	3,770	1,348		678	584	1, 159
Lowell, Mass	-15	311	1,451	4,358	6,644	5, 441	3,902	1,311	252	242	375	-73
Memphis, Tenn		044	1, 101	1,000	2,624	6,042	5, 479	2, 254	202	392	402	-20
Milwaukee, Wis		_ A	91	108	711	1, 215	1,915	1,328	971	675	427	873
Minneapolis, Minn	-19	- 3	97	120	592	1,280	1,963	1,541	1, 191	1, 151	575	490
Nashville, Tenn			45	124	5, 538	8, 327	5, 420	2, 206	2, 135	446	464	747
Newark, N. J.		0	27	565	2, 205	4, 799	5, 123	4, 444	2,014	1, 200	687	501
New Haven, Conn		-32	401	1, 102	2,479	4,906	6, 033	5,519	2,615	1,459	503	621
New Orleans, La	-23	-02	-54	294	1,852	8, 385	9, 156	4, 368	1, 957	822	281	356
New York, N. Y.	-20	11	93	629	2,010	4, 107	5, 091	4, 259	2, 122	885	473	223
Oakland, Calif.	19	**	-32	- 9	354	936	3, 271	5, 679	3,728	1,603	811	164
Omaha, Nebr	-53		-26	121	1.887	4,547	4, 164	2,618		1, 245	929	790
Philadelphia, Pa	- 3	31	157	2,014	7, 716		8, 841	3,448	986	350	154	106
Pittsburgh, Pa	-18	14	146	430	805	3, 197	4, 816		6,726		3,070	2, 293
Providence, R. I	-18	115	348	1,868	3,587	4, 948		5, 269		4,369		
Richmond, Va	66	31	57			6, 275	4, 210 4, 025	2,558	1, 162 760	586	502	290 577
Rochester, N. Y.	-42	-49	61	32	612	1,902		2, 166		886	243	
St. Louis, Mo.		17					4,077	3,989	1,914		646	385
St. Paul, Minn	15 21	11	57 12	-32	478	1, 135	1,436	1,581	1,378	1,358	1,089	1,374
San Francisco, Calif		59	55	50	1,177	1,458	1,091	2,000	2, 141	2,664	1,705	1,306
	-28	53			92	1,300	5,899	7,927	4,397	2,041	857	466
Syracuse, N. Y			1,150		6, 991	8,085	4, 425	2,088	784	610	83	- 76
Foledo, Ohio	-20		30	-13	101	886	2,642	2, 168	1,575	769	690	421
Washington, D. C	68	52	373		6, 257	7,989	4, 955	2, 240	584	394	312	364
Worcester, Mass	141	438	2,955	5, 891	6,813	4,702	2,465	1,662		272	744	462

¹ The weekly rates for the median year in the period 1910-1916 have been approximated by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city, and then by reading from the curve the indicated median rate at the mid-point for each week. The excess has been found by subtracting this median rate from the actual rate for each week in 1918. When the difference is "minus" it is so indicated.

IVY AND SUMAC POISONING

By E. A. SWEET, Surgeon, United States Public Health Service, and Dr. C. V. Grant, Office of Drug, Poisonous, and Oil Plant Investigations, Bureau of Plant Industry, United States Department of Agriculture.

INTRODUCTION.

The fact that certain species of plants belonging to the Rhus or Sumac family exert a poisonous action upon the skin of persons susceptible to their influence, has long been a matter of general recognition. Inasmuch as the poisonous growths possessing this characteristic thrive in America, and are especially prolific in certain sections of the country, it seems desirable from a health standpoint to bring together the general information on this subject in

order that the public may become better acquainted with the nature of these plants, methods by which they may be recognized, and the various means of preventing their toxic effects. The sum total of the incapacity and economic loss arising from this cause can scarcely be estimated, to say nothing of the bodily discomfort which commonly ensues, but certainly they are sufficient to justify a more widespread knowledge of the practical aspects of the Rhus problem.

DESCRIPTION OF THE PLANTS.

The native forms of Rhus² which produce skin eruptions belong to several species distinct botanically, including the vines and shrubs known as poison ivy and poison oak, and also the poison sumac shrub or tree. Despite their variety of form these plants are closely related and possess certain prominent peculiarities by which they can usually be distinguished without difficulty, so that by acquiring some slight knowledge of the characteristic appearance of their leaves, fruit, winter buds, and of their habit of growth, one may readily avoid them at all seasons of the year.

Poison Ivy and Poison Oak.

Poison ivy and poison oak occur as woody perennial vines or as low erect plants, or trailing shrubs, and are most readily distinguished by their leaves, which are always divided into three leaflets, and by their smooth, whitish, waxy fruits, which resemble mistletoe berries in appearance but vary in size from \{\frac{1}{8}\] to \{\frac{1}{8}\] of an inch in diameter and contain a single stony seed. Of the various names applied to these plants in different localities the commonest are poison ivy, poison oak, mercury, piery, climbing or trailing sumac, and poison vine. For purposes of recognition and consideration with respect to their poisonous properties, the several botanical species may be included under one general description, although great variations in character of growth and in the forms of the leaflets are found, in many instances even on individual plants.

While the names poison oak and poison ivy are used interchangeably, the term poison oak is often restricted to plants with an erect or bushlike habit of growth and with leaflets resembling certain types of oak foliage. Thus the plant generally known as poison oak throughout the Pacific coast region from Lower California and Arizona to Canada, occurs as a bush, sometimes attaining a height of

¹ Through the work of a number of investigators, knowledge of the toxic group of Rhus plants has been greatly increased in recent years with respect not only to the nature of the poisonous principle but also to the dermatitis produced by it. In the present bulletin the results of these investigations have been freely consulted in preparing a general summary of the available information on the subject. To those desirous of obtaining more detailed information, the references found on page 458, which, however, do not constitute a complete bibliography of the literature, may be of assistance.

² The species of poison by and poison sumac are grouped by some botanical authors under the generic name Toxicodendron.

³ Rhus diversiloba Torr. and Gray.

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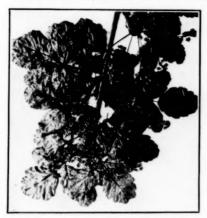


Fig. 1.—Poison oak, Rhus diversiloba Torr and Gr., of California and the Pacific Coast.



Fig. 2.—Poison ivy, Rhus radicans L. Branches of poison ivy vine showing leaves, aerial roctlets, and flowers.



Fig. 3.—Poison oak, Rhus quercifolia (Michx.) Stend., of eastern United States.



Fig. 4.—Poison oak, Rhus rydbergii Small. A western form knewn as Rydberg's poison oak.



Fig. 5.-Leaves of poison ivy, Rhus radicans L.



Fig. 6.—Leaves of Virginia Creeper, Parthenocissus quinquefotia L. Pianch.



Fig. 7 .- Poison sumac, Rhus vernix L.

4 or 5 feet, and has leaflets (Fig. 1) resembling leaves of the western oaks; but it is also found growing as a vine, and is sometimes called poison ivy. In the East, from New Jersey, Delaware, and Virginia, south and southwestward, the name of poison oak¹ is often used to distinguish from the poison ivy vine² (Fig. 2), a form growing as a bush (Fig. 3), with lobed leaflets somewhat suggestive of leaves of scrub oak; while westward from Minnesota, Nebraska, and Arkansas, to Washington, Montana, Colorado, and New Mexico, this name is applied to a low bush³ or trailing shrub form (Fig. 4) which does not climb.

Familiarity with any one of the forms (Figs. 1 to 5) will enable even the careless observer to recognize poison ivv or poison oak wherever encountered, whether as a vine, trailing shrub or bush, or at least to avoid readily all plants bearing a suspicious resemblance The vines attach themselves to trees, walls, fences, rocks, or any adjacent support by means of aerial rootlets, and are without the twining tendrils found on many climbers. They sometimes climb to the tops of the highest trees, and are occasionally found with stems 3 or 4 inches in diameter. The forms growing as erect bushes, or shrubs with trailing underground roots, usually attain a height of a few inches to about 3 feet, but in favorable situations are often found as bushes of luxuriant growth 4 or 5 feet high. leaves of all forms have stout, rather long stems, bearing 3 leaflets. 2 of which are opposite and short-stalked, while the third or terminal leaflet is long-stalked. The leaflets are from 1 to 4 inches long, dark green on the upper surface, lighter, sometimes with a velvety covering of fine hairs underneath, with smooth or more or less indented margins, and of the variable forms herein illustrated (Figs. 1 to 5). The tendency of the leaflets to form irregular, notched, and indented margins is an aid to the identification of the plants; and in forms with generally smooth margins, a deep notch or several indentations on one side of the leaflets (Fig. 5) are characteristics which often serve to confirm the identification. Small, inconspicuous, vellowishgreen flowers, borne in loose branching clusters about 1 to 3 inches long, growing out of the angles between leaf stalks and plant stem or above scars along the sides of the branches, appear in early summer and are followed by the small, globular, smooth, green fruits which become white or ivory color as they ripen. These waxy fruits, which remain on the plants until late in the winter, are about one-fourth of an inch in diameter in the commoner forms. They are globular in shape, sometimes flattened or lopsided, and with the advance of the season have a tendency to dry and wrinkle, often losing their thin

¹ Rhus quercifolia (Michx.) Steud. The name R. toxicodendron has been applied to this plant by some authors, but is generally considered to refer to the poison by vine (R. radicans).

² Rhus radicans L.

² Rhus rydbergii Small. By some authors this is considered only a low form of R. radicans.

outer coating and revealing the single deeply grooved stone which they contain.

Poison ivv or poison oak in one or various forms infests practically all parts of the country except mountain elevations above about 6.000 feet and arid lands. It is found in fields, pastures, woodlands, and thickets, along roadways and streams, often also in city parks, cemeteries, and suburbs, sometimes mixed with other shrubbery in such a manner as to escape observation until attention is attracted to it by the occurrence of cases of poisoning. It adapts itself to the greatest variety of conditions, spreading through deep hollows and ravines, flourishing in dry soil and on hillsides, often spreading by underground roots from which small, erect shrubs arise, and showing the tendency to ascend trees or any support encountered in its growth. Its highly attractive foliage, which is red when the young leaves first unfold, becoming green with the advance of mild weather, and turning in autumn to beautiful shades of scarlet and orange, has led to its being preserved to some extent as an ornamental vine or shrub, and at times to the collection of its foliage by persons ignorant of its identity and injurious properties. Many cases of poisoning result in this way.

In the Eastern States, and westward as far as Wyoming and Texas, the Virginia creeper ¹ (Fig. 6) is found generally in the same localities as the poison ivy vine, which it resembles somewhat in its habit of growth and in the shape of its leaflets. Probably because of this resemblance it has occasionally been reported as a source of ivy poisoning, but it is harmless to the touch and is readily distinguished from poison ivy by the fact that its leaves are divided into 3 to 5 leaflets to a stalk. Moreover, though it is sometimes supported by aerial rootlets like poison ivy, it has also numerous tendrils like those of vines of the grape family, of which it is a member, and its fruits, which are inedible, are blue in color, have red stems, and contain 2 or 3 seeds.

The fragrant, or sweet-scented, sumac, and the ill-scented sumac are Rhus shrubs with trifoliate leaves, resembling forms of poison ivy so closely that they may not be readily distinguished in some instances. Both differ from the poisonous Rhus species in their flowers, which appear in dense spikes before the leaves, and in their red fruit; they also differ in the aromatic properties indicated by their names. The fragrant sumac is found in rocky woods from Canada to Florida, and westward as far as Minnesota, Kansas, and Louisiana, while the "skunk bush" occurs from Illinois and Texas westward to Washington and California, growing in dry soil.

Poison Sumac.1

Poison sumac grows in moist ground, usually in swamps or along low, miry banks of streams and ponds. It occurs from the New England States south as far as Florida, and westward to Minnesota. Arkansas, and Louisiana, and is known under various local names such as poison dogwood, poison elder, poison ash, thunderwood, and poisonwood. It frequently grows as a tree 10 to 20 feet high. and may attain a height as great as 30 feet, with trunk 5 to 10 inches in diameter; but it is more abundant as a shrub, with several slender. clustered stems. The trunk has smooth, light-gray bark, while the young twigs are reddish brown when they first appear, turning to orange brown by the end of their first year, and the older branches have the gray color of the trunk. The leaves are about 7 to 14 inches long, and consist of a slender stalk bearing 7 to 13 leaflets. arranged opposite one another in pairs, with a single usually longstemmed leaflet at the end, those at the side being attached to the stalk by short stems (Fig. 7). The leaflets, which are of an elongated oval shape, with entire margins, attain a size of 3 to 4 inches long and 11 to 2 inches wide. When they first unfold in the spring they are of a bright orange color and have a velvety covering of minute hairs, especially along the margins and underneath. This covering soon disappears. At maturity the leaflets are dark green and glossy on the upper surface, with prominent scarlet midribs. and lighter green underneath. Early in summer minute vellowishgreen flowers appear in narrow clusters, about 3 to 8 inches long. growing out of the angles of the leaf stems near the end of the branches, and are followed by shining ivory white or yellowish fruits, globular in shape but somewhat longer than thick, about 1 inch in diameter, resembling those of poison oak and poison ivy already described, and containing a single yellow grooved stone. The foliage turns early in autumn to brilliant red, orange, and russet shades. The leaves fall early: but the drooping, long, slender clusters of pearly fruit remain, often until the following spring, and, with the light gray bark and pointed purplish winter buds, are means of identifying poison sumac in its winter state.

Those persons having little familiarity with the identity of trees and shrubs occasionally confuse poison sumac with the harmless sumacs, certain species of ash, elder, and various other shrubs and trees bearing somewhat similar foliage. They also confuse it with dogwood to which it bears no resemblance. The poison sumac leaves are, however, readily distinguishable from all of those plants, while the difference in character, appearance, and color of the fruits is such as to enable one to exclude them without difficulty. It is well to re-

¹ Rhus vernix L.

member also that the poison sumac occurs on moist or swampy land, and in drier locations it is found only along the borders of swamps and bogs or where the ground is wet during part of the year.

Its loose, drooping clusters of flowers, and later of ivory-white fruits, are entirely different in appearance from those of the harmless sumacs of the region in which it grows. These latter produce flowers and fruits on densely covered upright terminal spikes which are of a conspicuous red shade in the fruiting stage. Aside from conspicuous differences in form, the number of leaflets into which the leaves of the harmless sumacs are divided, which ranges from 9 to 21 and 31 in the commoner species, as compared with 7 to 13 in the poison

sumae, is a further aid in distinguishing them.

The statement that native forms of sumac with red fruit are harmless should, perhaps, be qualified with respect to a rare form occasionally found from North Carolina to Georgia, and which has been reported as poisonous by various writers and declared harmless by others. This is a low shrub 1 to 3 feet high, spreading by underground roots. Its leaves are 12 to 14 inches long, and consist of about 11 broadly oval leaflets about 2½ inches long and 1½ inches wide, stemless or very short stalked with the exception of the terminal leaflet which has a stalk three-fourths of an inch long with winged margins. Its flowers are produced in dense clusters at the ends of branches, and its fruit is bright scarlet when ripe, and covered with fine silky hairs.

A near relative of the above-described forms is the poison wood or hog gum-tree of the West Indies, also known as coral sumac, which occurs in the hummock lands of southern Florida. Its sap is said to be dangerously poisonous to touch, and inflammation of the skin is reported to have been caused by mere proximity to the plants. The plant is usually seen as a small tree, but sometimes attains a height of over 35 feet, with short trunk 2 feet thick. The bark is of a reddish brown color, separating into plate-like scales, between which the bright orange color of the inner bark is seen, and marked by dark spots caused by exudations of a resinous gum. The gum of this tree, collected by incising the bark, is employed medicinally to some extent as an emetic, diuretic, and purgative. The leaves are 9 to 10 inches long and consist of a stout stalk, thickened at the base, bearing 5 to 7 (or sometimes 3) oval or almost heart-shaped leaflets 1 to 4 inches long. The leaflets have short stalks, are glossy green on the upper surface and dull underneath, and have smooth margins. The tree produces small yellowish-green flowers in clusters about 10 inches long, followed by bright orange-colored, oblong, one-stoned fruits about three-fourths of an inch long.

NATURE OF THE POISON.

The various toxic species of Rhus apparently cause skin irritation through the same toxic principle. The nature of this poison has long been a matter of study, but it now seems to be established that it is an oily principle, called toxicodendrol, which can be extracted from the leaves, roots, flowers, green fruits, and in fact all parts of the plant with the possible exception of the pollen and ripe fruit. Experiments have shown that the minutest quantities of this oil can produce Consequently, contact of the body with the growth. however slight, may result in the transference to the skin of enough of the poisonous principle to exert its poisonous effects. It is not necessary that this contact should be direct, as an intermediate object can transfer the poison to the skin; for example, articles of clothing or farm implements which have brushed against the plants may be later handled, thus giving rise to poisoning, and the possibility of contracting it from horses, dogs, or other animals which have been in contact with the plants should not be overlooked.

While there is reason for believing that the nonvolatile toxicodendrol is the sole toxic principle concerned, it was formerly supposed that Rhus poisoning was caused by volatile emanations from the plants, and there is still much diversity of opinion concerning the matter. Apparently authentic cases of Rhus poisoning which appear to have originated without direct or indirect contact with the plants have been reported. Many persons who know the plants and are careful to avoid them are convinced that they have been poisoned by passing by them or observing them from a short distance. Cases of this kind are sometimes attributed to transference of the poison by minute particles or other dust from the plants, possibly pollen or leaf hairs, which might be borne through the air for considerable distance. Although it seems to have been shown conclusively that the poison is not formed or normally contained in either pollen or leaf hairs, this does not exclude the possibility that they might take it up by coming in contact with other parts of the plant. It is probable however, that many cases supposed to have originated in this way have actually been due to direct or indirect contact. The exact manner in which the poisoning has occurred may readily be overlooked, since in many instances the appearance of the eruption is delayed for several days and traces of the poison sufficient to produce injury may be conveyed by clothing or other articles long after contact with the plants. Numerous attempts to produce poisoning experimentally by emanations from Rhus plants, and from the oil itself, have been unsuccessful. On the other hand, there is excellent foundation for the popular belief that smoke from the burning plants will give rise to irritation, and some of the worst cases of Rhus poisoning undoubtedly originate in this manner.

Taken internally in toxic doses, the plant is reputed to have the properties of a violent irritant and narcotic poison. Cases of poisoning of children from eating the fruit have been reported. Horses and cattle eat poison-ivy foliage freely, apparently without any ill effects, at least from the relatively small amounts consumed under usual conditions.

SUSCEPTIBILITY.

It has long been a matter of observation that certain individuals possess a marked degree of resistance to the action of Rhus toxin. It is not strange that they should thus come to regard themselves as immune, although there is good reason for believing that absolute immunity does not exist. Experiments with persons of this type have shown that when they are subjected to prolonged exposure, or to the application of the toxic principle of the plant itself, they

react to some degree and are therefore not immune.

That varying degrees of susceptibility to the poison exist, there can be no doubt; but here again we are on treacherous ground, as a person may be repeatedly exposed without noticeable symptoms only to have his pride humbled upon a subsequent exposure. Some individuals are not ordinarily susceptible to ivy but do react to sumac. Since the poison in the two plants is apparently the same, the difference is explained by the fact that the sumac generates and distributes the toxin in larger quantities than does the ivy. Likewise, certain individuals claim to be insusceptible to the leaves but admit that the smoke, which contains a finely divided but heavy dosage of the toxin, causes symptoms. The rule can be offered that whenever a large amount of toxin is deposited upon the skin, and the person is markedly susceptible, the reaction will be severe, whereas if the dosage is small and the susceptibility slight, the reaction will be mild. in fact so light in some cases as to be unnoticeable. The actual contact with the plant may occur in such a way as to cause little or no transference of the toxin, and consequently no noticeable effects in an individual who on another occasion may be severely poisoned through acquiring a heavier dosage, particularly from freshly bruised stems or leaves.

For the same reason the plants are most poisonous in the spring and summer when their acrid juice is abundant, although they retain their poisonous property even long after drying, and injury from old herbarium specimens is not uncommon. Certain local conditions, such, for example, as the thickness of the integument, and the state of the skin as regards perspiration at the time of exposure or subsequent thereto, may serve, however, to modify the irritation.

SYMPTOMS.

The time elapsing between exposure and the earliest manifestation of symptoms varies from a few hours to 5 days or even longer, depending upon the susceptibility of the individual, the degree of exposure, and the amount of resistance of the parts involved.

The hands, forearms, and face are most often attacked, as they are especially subject to exposure. The feet and legs of barefoot children, for manifest reasons, also afford a favorite site for the eruption. Other regions of the body, such as the trunk, the genital organs of males, or the breasts of females, often become involved either as a result of direct exposure or the conveyance of the irritant to these parts by the hands, clothing, or through bathing. A tub bath is frequently the means of disseminating the irritant to sections of the body other than those primarily affected, and the disease in exceptional instances may even originate from contact with the clothing or skin of some other person, so that in a sense it is "catching."

The symptoms of an ordinary attack of Rhus poisoning vary considerably. The earliest evidence of trouble is a slight itching or burning sensation. As the inflammation develops, the itching and burning become more intense, at times causing marked annoyance and even disturbance of sleep. Scratching affords partial relief, but inasmuch as the inflammation is aggravated in this way and the poison may be distributed to unaffected sections, it should be resisted. Occasionally, patients of some phlegmatic type will be met with who make little complaint of either itching or burning, but usually these are the most distressing symptoms. In severe cases, or when infection by pus germs has occurred, actual throbbing pain may be present, especially in dependent parts.

The skin eruption shows wide diversity. It may consist merely of reddening of the involved surfaces, accompanied by swelling, the redness being in proportion to the degree of inflammation. More often small vesicles, containing serum, develop, usually in streaks or patches. The coalescence of several of these spots results in the formation of blebs, or blisters, which may cover a square inch or more of surface. When these serum-containing lesions rupture, their contents are discharged, producing a moist or weeping effect, such as is often seen in acute eczema. In moderately severe cases, pustules form, the pus pockets resulting from the entrance of germs which are normally present upon the skin or which have been introduced by scratching. Scab formation in the latter stages is common. or all of these lesions may accompany the inflammation so that the skin frequently presents a decidedly angry appearance. After the subsidence of the inflammation, peeling of the integument occurs, the layers of the skin often coming away in large patches, leaving a

denuded surface of the new skin beneath. The desquamation takes place within from a few days to a week or more after recovery, and may, in mild cases, be so slight as to escape observation.

Swelling and oedema of the parts involved nearly always occur. If the tissues making up the inflamed area are lax, as for example about the eye or scrotum, the swelling is apt to be pronounced. Quite commonly, one, or even both eyes may be entirely closed, the ear may become twice its customary size, the lips distorted, and other parts have their normal lines obscured. The swelling usually terminates as rapidly as it develops, and should not, under ordinary conditions, occasion undue alarm.

In certain complicated cases, where the invasion by pus germs is particularly severe, small abscesses may form. Such cases are accompanied by enlargement and tenderness of near-by glands, by pain, fever, and other evidences of constitutional disturbance. In rarer instances ulcers develop; complications of this character are apt to be followed by scars. Ordinarily, however, the disfigurement from Rhus poisoning is but temporary, the skin soon regaining its normal color and appearance. Occasionally when a person is exposed to the irritant at frequent intervals, a more or less chronic inflammation of the skin resembling eczema develops, and the sufferer is quite at a loss to know the source of his trouble.

On the whole, the skin eruption resulting from Rhus poisoning does not differ materially from that caused by a number of other irritant poisons, as, for example, such chemicals as bichloride of mercury, arsenic, and certain anilin compounds contained in dyes. It is well to know that identical effects are also sometimes produced by urine, pus, and other irritating bodily discharges. The seasonal prevalence of the inflammation, the history of exposure, and the fact that Rhus poisoning is much more common than that brought about by other agents, will give a clue to the character of the disturbance.

PREVENTION.

Much can be accomplished toward the protection of persons who come in contact with Rhus vines, and also in preventing or lessening the disastrous effects following exposure. Toxic plants can usually be handled with impunity if rubber gloves are worn, provided none of the dust or irritating material comes in contact with the body. Care should be exercised in removing the gloves from the hands, as they necessarily will harbor the toxic material and any contact with the skin is apt to cause trouble. After the gloves have been removed they should be thoroughly washed with soap and water, rinsed several times, and laid away. The water in which the infected gloves are washed will naturally contain the poisonous principle, hence it may not be entirely innocuous. Ordinary thick gloves of firm texture,

with gauntlets to protect the wrists, may be used in place of rubber gloves, but the protection afforded is not always absolute. Inasmuch as clothing which has come in contact with the leaves may serve for an indefinite period to convey the infection, a change of garments following exposure is to be recommended, this change to include shoes, which perhaps more often than any other article are a source of indirect contagion. The anointing of the parts to be exposed with cottonseed or olive oil, or vaseline, is said to serve as a protective means of considerable value. The oil must later be completely removed by repeated washing.

In some localities the belief is prevalent that eating poison ivy leaves in the spring will confer immunity during the year, but this seems at best a dangerous experiment and severe cases of poisoning contracted in this manner have been reported. In the present state of knowledge of the subject, therefore, it is believed that attempts to confer immunity by the ingestion of leaves or extracts of the plant should

be undertaken only under the guidance of a physician.

One of the surest and best methods of individual prophylaxis is the use of soap and hot water. It has been found that the Rhus poison after being deposited upon the skin requires a certain time for penetration, and if this penetration can be prevented, irritation and the resulting eruption will not occur. Hot water and soap act mechanically, and if judiciously used constitute by far not only the most serviceable preventive but also one of the best curative agents which we at present possess.

The washing should be done as soon after exposure as possible. If considerable time has elapsed—that is, from 12 to 24 hours—this method should be adopted in the hope that at least a portion of the material which has not had time to penetrate will be removed. A soft brush, or better, pieces of gauze, should be used, although there is no objection to a wash rag, provided several are available. Much harm can be done with a stiff brush vigorously wielded, as in this way the minute particles of toxic material may be driven further into the superficial layers of the skin, resulting in more acute and pronounced inflammation than otherwise would have occurred. A heavy lather should be produced and the washing continued for 4 or 5 minutes. Several pledgets of gauze should be used, each being discarded in turn, in order that the poison may not be distributed by the cloth. For the same reason the water should be changed frequently, or running water used. To obviate the danger of disseminating the poison to unaffected parts, only the exposed or diseased area should be immersed, if this is feasible. After drying the area, it is well to repeat the process in 4 or 5 hours. Alcohol exerts a solvent action upon the toxin and can be similarly used, care being taken to flush the parts with an

excess of the liquid. The alcohol should first be diluted with an equal quantity of water. Ordinarily if either of these procedures is carefully followed, much if not all of the toxic material will be removed and the inflammatory reaction prevented or greatly lessened.

Where the exposure has been more general, a bath for the entire body, with the exercise of the precautions mentioned, followed by a change of clothing, is a good preventive measure. The hair should not be neglected. A shower is to be preferred for the reasons indicated, but if this is not practicable, the water in the tub should be changed at least twice. Bathing, if improperly performed, may result in the appearance of the rash on parts of the body not at first involved, although this secondary eruption is usually less intense than that at the original focus.

Handling of the body should be discouraged. Even in those cases where the hands are not involved they are liable to harbor the toxin, hence it is easy to understand why their movements should be restricted. This will be difficult with children, and most adults will meet with considerable inconvenience in the observance of this prohibition. Freedom of movement is without danger if the hands are properly scrubbed.

re properly scrubbed.

TREATMENT.

If the treatment previously outlined fails to prevent the development of the skin poisoning reaction, it is still possible by intelligent effort to alleviate in large measure the distressing symptoms. Before undertaking measures for relief, one should remember, however, that any treatment for disease is more intelligently administered by a skilled physician than by a person unskilled in medical knowledge. It is also well to recall that what is indicated in one case may be contraindicated in another, and that a particular stage of a disease may, and often does, require treatment which would be disastrous were it instituted at a later period. For these reasons, therefore, it is desirable in serious cases to secure competent medical advice, if such is obtainable, and to follow strictly the directions given. Where for any reason this is not feasible, the following treatment is recommended:

If the skin is highly inflamed or the eruption extensive, it is advisable to keep the patient in bed, as rest of an inflamed part invariably hastens cure. Exposure to the sun during hot weather increases perspiration and aggravates the inflammation, hence is to be avoided. The comfort of the patient will be increased if the clothing is thin, the bedding light, and the room kept cool. Care should be exercised to see that no part of the clothing irritates the inflamed area. It is well to maintain the bowels moderately free; for this purpose a Seidlitz powder before breakfast, as necessary, is beneficial. Summer weather diet—that is, plenty of fruit, cool drinks, and frozen desserts—is indicated, particularly if moderate fever accompanies the

inflammation. Should this or other constitutional symptoms, such as pain, headache, or loss of sleep, be present, suitable remedies are

to be prescribed by the physician.

For the eruption itself, scores of remedies and numerous favorite prescriptions—many of which are claimed by their advocates to possess distinctive virtues, if not specific qualities—have been recommended. In spite of these claims it is necessary to state that no specific treatment for Rhus poisoning is yet available. The very multiplicity of preparations recommended, ranging in character from brine to brimstone, and also including the juice of at least 20 different plants, in itself constitutes reasonable proof of the correctness of the above statement. The irritation is in its nature selflimited, usually requiring only a week or 10 days for its entire subsidence, hence it is easy to understand how numerous so-called cures have arisen.

For the relief of itching nothing is better than the immersion of the inflamed surface in hot water for several minutes, gradually increasing the temperature until the water is as hot as can be borne. If the eruption is on the face, the hot water can be applied by means of a thick towel. As previously mentioned, the soap-and-water treatment is distinctly curative in those cases where all of the poison

has not penetrated.

It is better that the inflamed area should be left exposed to the air rather than tightly bandaged. If the bandages are kept moist with a solution of cooking soda or borax (a teaspoonful dissolved in a cup of water), or with other solutions to be mentioned, there is no objection to their use. In any event they should be frequently changed, more especially when pus has formed, or when the secretion is excessive.

Ointments, in the acute stage, should not be used; compounds with a fatty base serve to scatter the toxic oil and thus tend to aggravate rather than relieve the inflammation. In the latter stages of the disease, after the toxic material has exhausted itself and a certain amount of inflammatory reaction still persists, soothing or astringent

ointments are of value.

Hot solutions of permanganate of potash (of 2 per cent strength if the skin is intact, but only half as strong if the skin is broken) have been much in vogue. The drug is thought to exert a direct action upon the poison in much the same manner as vinegar counteracts the effect of an alkali. One disadvantage of permanganate is that it stains the skin a mahogany brown of greater or less intensity; but this stain in time will wear off, or it can be immediately removed by

the application of lemon juice.

A 10 per cent solution of hyposulphite of soda, photographer's fixing liquid, applied as a wet dressing, gives in many instances beneficial results. A similar solution of sulphate of magnesium, Epsom salts, is entirely harmless and allays the inflammation as satisfactorily as most other remedies. A lotion made of 1 part of the fluid extract of Grindelia to 10 parts of water, introduced as a specific, has likewise been extensively used with varying results. Since applications of solution of sugar of lead, a favorite treatment in earlier days, generally prove disappointing after the inflammation has developed, and involve the risk of lead poisoning if used over extensive areas, they are not recommended. If used in the early stages it

should be remembered that lead salts precipitate the toxin and the treatment should therefore be followed by washing to remove any

traces of the poison thus deposited.

The blebs or blisters, if fully developed, should be opened with a sterile needle and the clear serum expressed with a pledget of absorbent cotton. This serum is harmless and does not spread the infection to uninvolved areas. The integument, however, should not be removed until the new skin beneath is well formed and its sensitiveness diminished. In the late stages the application of a mild boric acid or zinc oxide ointment hastens the cure.

IMPORTANCE OF DESTROYING POISON IVY.

The more general destruction of all noxious vegetation is to be encouraged by every possible means. Every landowner should feel that he is in a measure responsible for illness resulting from exposure to irritating plants growing upon his premises, even if such illness or incapacity does not happen to occur among members of his own household, and he should adopt such means as are necessary for the elimination of this dangerous material. Communities should see that poison ivy flourishing by public waysides and in parks is destroyed. It is, of course, realized that this destruction can not always be brought about in a single season, as these plants are particularly persistent in their growth, frequently springing up in diminished amount year after year even when they are supposed to be totally destroyed; but if continued effort in this direction is made, ultimate success is sure.

In dealing with this problem of eradication in rural districts, it may be possible to secure the cooperation of a group of neighbors whose combined efforts will greatly enhance the effectiveness and thoroughness of the work. It is not unusual to find that a single vine growing close to a frequented walk, or perhaps in the farmer's dooryard, is the cause during the season for many cases of suffering, and the country boy who has undergone seasonal torment from ivy poisoning can frequently vividly recall the identical vine which gave rise to his attacks. There is little reason for permitting dangerous conditions of this character to persist. The fact that climbing vines of the Rhus family enhance the beauty of the surroundings should not stand in the way of destructive measures, as their very beauty, enticing as it is to the uninitiated, makes them the more dangerous. Since relatively few people are able to recognize the various toxic plants—and even when this recognition is possible, exposure can not always be avoided—destruction of those plants is the only sure means of prevention.

Knowledge concerning harmful plants and their identification may well be disseminated as a part of the courses of instruction in public schools. The differences between poison ivy and the harmless Virginia creeper, and the characters by which the several forms of sumac may be contrasted, afford a most interesting addition to natural-science courses and can easily be made the topic of a lesson of practical value even for children in the lower grades. Considerable success has been achieved in this way in teaching children in malarious regions to distinguish between disease-carrying and nondisease-carrying mosquitoes. Lessons of this character constitute a profitable form of nature study and can be made particularly attractive even to the dullest pupil.

Methods of Eradication,

For the removal of poison ivy it is sometimes possible to employ persons who are not readily susceptible to Rhus poisoning, but the exercise of the protective measures already suggested should enable anyone to undertake the work without injury. Those who are highly susceptible to the slightest exposures, and who on that account have special cause to fear the plants, may incur less risk by undertaking the work of eradication in late fall after the sap is out of the plants, which are then less likely to produce injury.

The means to be employed may be determined largely by convenience. The most rapid and effective method of dealing with isolated clumps of poison ivy is simply to grub them out, taking care to remove thoroughly the running rootstocks, which, if left in the ground would soon produce another crop of the plants. In infested fields the plants may be destroyed by plowing up the soil and planting cultivated crops. The plants can be killed by mowing repeatedly so as to exhaust the root system by destroying the foliage as fast as it appears, but to be successful, the mowing should be carried out persistently.

The use of kerosene has been recommended by the Forest Service of the United States Department of Agriculture, after thorough investigation and trial, as an effective means of destroying poison ivy in situations where injury to other plants is not to be feared. In many cases one thorough wetting with this agent, applied by sprinkler or spraying pump, will be sufficient. Where the growth is so thick that only a part of the foliage is reached by the first treatment, a second application is sometimes necessary. The effectiveness of the treatment will be increased if the soil is disked or cut up slightly so as to expose the roots to the action of the kerosene. It must be remembered that kerosene will injure or destroy all vegetation and is therefore not available for use near valuable trees. On the other hand, the usefulness of the soil is not long impaired, locations where the ivy has been exterminated by this method in the spring or summer being found covered with new growth of other plants by fall. Crude petroleum, which has the advantage of being less expensive than kerosene, has been found equally effective, but it is less suitable in places where it is desired to avoid prolonged detriment to the soil.

In work undertaken by the Massachusetts Experiment Station it was found that arsenite of soda could be used very successfully to kill poison ivy on stone walls, buildings, and along fences, and on large trees over 6 to 10 inches in diameter without injury to the trees. In these experiments a solution prepared by dissolving 1 to 2 pounds of sodium arsenite in 10 gallons of water was found effective. For destroying patches of poison ivy, 10 gallons of this solution will be required per square rod. It has the disadvantage of being equally injurious to small trees and other desirable vegetation, and may render the land useless for cultivation during a prolonged period. As the preparation is poisonous, care should be exercised to keep horses and other live stock away from the poisoned plants.

Other methods employed include spraying with hot brine of a strength of 3 pounds of salt per gallon of water, repeated several times during the spring or summer at intervals of 10 days to 2 weeks, or the application of strong chemicals, such as concentrated sulphuric acid. The use of corrosive chemicals, however, involves a risk of injury to the user which is needless in view of the availability

of safer means of eradication.

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A SIMPLE APPARATUS FOR OBTAINING BLOOD SPECIMENS.

By JOHN W. HART, Regional Consultant, Division of Venereal Diseases, United States Public Health Service.

Several methods of securing specimens of blood for laboratory examination have been used with more or less success since the universal adoption of the Wasserman and other serological reactions in the diagnosis of disease. Most of these methods have been evolved to meet special requirements, and they vary from the simple insertion of a needle into the vein and the draining of blood into a test tube, to several complicated methods devised to meet special conditions. One of the most widely known of the methods is that of Kiedel, in which a vacuum tube is used. The following method is based on the vacuum principle, but is simpler and more economical than the Kiedel tube.

The apparatus is composed of the following parts: An all-glass(or, preferably, metal) stopcock about ½ inch in length; an all-metal syringe, 15 cc. capacity, such as those used for irrigations in ear, nose, and throat work; 3 short pieces of rubber tubing, about 1 inch in length, $\frac{3}{16}$ -inch bore; a 16-gauge luer needle; and several test tubes of the desired capacity, drawn out at the open end to a diameter of

about 1 of an inch (Fig. 1A).

For use it is assembled as follows: The stopcock is connected with the drawn-out end of the test tube by means of one of the short sections of rubber tubing. The second section of tubing is connected with the outlet of the metal syringe, and the third section of tubing is connected with the butt end of the luer needle. The apparatus is now ready The outlet of the stopcock is for use. connected with the outlet of the syringe, and a vacuum is secured by pulling out on the plunger and then closing the stopcock (Fig. 1B). The needle is then attached to the stopcock outlet and the apparatus is ready for drawing the specimen (Fig. 1C). After the insertion of the needle the stopcock is opened and the blood is drawn into the tube by the vacu-The tube can then be sealed in the flame as is done with the Kiedel tube.

The advantages claimed for this method are important and are as follows:

1. The cost is less than that of the Kiedel tube. While the initial cost may be more, the subsequent cost is only that of the containers for the specimen.



2. If after inserting the needle in the arm and opening the stopcock it is found that the vein has not been tapped, the needle can be left in place and the stopcock and tube removed while a new vacuum is secured. Under the same circumstances with the Kiedel apparatus the tube is worthless, and failure to reach the vein, which is generally discovered after the tube is broken, means an extra expense together with an added discomfort to the patient caused by the withdrawal and reinsertion of the needle.

3. Any amount of blood can be taken at one time; the amount is

limited only by the size of the container.

4. There is a certainty of securing a specimen at the first puncture, no matter how small the vein—a feature to be considered when dealing with the hypersensitive patient and those persons in whom the vein

can not be punctured by ordinary methods.

5. Last, but not least, the needle can be held firmly in place while the stopcock is opened, overcoming the great objection to the Kiedel tube that the needle may be moved through the wall of the vein while breaking the glass, and the danger of withdrawing the needle from the vein when pulling on the plunger while using the luer syringe method.

The method here described is in use in several of the clinics of the South, and from all reports it is proving not only entirely satisfactory.

but is found to be cheaper than the Kiedel tube.

The apparatus is easily cleaned and practically no attention is required to keep it in perfect condition; and in the larger clinics it is only necessary to have a number of stopcocks and needles.

CHILD HEALTH SUPERVISION.

Owing to the growth of interest manifested in child-welfare activities by State and local departments of health, as evidenced by the establishment of divisions of child hygiene in an increasing number of those departments, it is not inappropriate at this time to invite attention to maternity and infant welfare schemes that are being considered or adopted in other countries. The following extracts are taken from *The Medical Officer* of January 10, 1920.

Nursing Scheme.

In an attempt to coordinate the activities of the volunteer nursing associations with those of the legally constituted health authorities, the following maternity and infant welfare nursing scheme has been adopted for the county of Pembrokeshire, South Wales:

1. A central committee to be formed of 12 members, 6 of whom shall be appointed by the county council and 6 by the South Wales Nursing Association.

2. The duties of the central committee to be-

(a) Engaging and dismissing nurses working under the scheme:

(b) Responsibility for starting new associations in dis-

tricts where there are none at present;

(c) Arranging for the grouping of parishes and the consideration of the number of nurses required for each district.

3. The county council to pay £90 per annum to each local association for each nurse employed, as sanctioned by the central committee, and, in addition, a sum not exceeding £25 to each new association for initial expenses. The local associations to undertake to carry out the work required by the public-health committee and the education committee of the county council as scheduled.

4. The county council grants to be paid quarterly to the secretary of each local association. Each local association to pay its own nurse

or nurses.

5. Each local association to have a committee of not less than six members, of whom the county councillor representing the district shall be one, and also any alderman of the county council living in the district.

6. Each local association to present a balance sheet annually to the central committee, and to send in reports of the work of the nurse as may be required by the county medical officer of health.

7. A superintendent nurse to be engaged by the central committee

when the scheme is in full working order, if necessary.

9. The county council to give a grant to the nursing association for

the training of nurses for work in the county.

10. For the purpose of obtaining grants from the various government departments concerned the £90 should be divided equally among the following five branches of work—namely, midwifery, public health, tuberculosis, school nursing, and school visiting, and the initial grant of £25 for instruments, etc., should be charged as a maternity and child-welfare expense.

Assistance in Providing Milk.

In view of the large number of applications received from expectant and nursing mothers for assistance in providing milk and of preparing a scheme for supplying milk at cost price, and in view of the increase in the maximum price of same, the maternity and child-welfare subcommittee of the Swindon town council recommended the following schedule:

(a) That not more than $1\frac{1}{2}$ pints of milk be provided daily, free of cost, for children under $1\frac{1}{2}$ years of age, where the total weekly income of the family, after deducting the amount paid for the rent of the house, does not exceed 7s. 6d. per head. (b) That not more than $1\frac{1}{2}$ pints of milk be provided daily at half cost for children under $1\frac{1}{2}$ years of age, where the total weekly income of the family, after deducting the amount paid for the rent of the house, is between 7s. 6d. and 10s. per head. (c) That the consideration of the question of providing a supply of milk for children between $1\frac{1}{2}$ and 5 years of age be deferred for the present. (d) That not more than 1 pint of milk be provided

daily free of cost to expectant and nursing mothers where the total weekly income of the family, after deducting the amount paid for the rent of the house, does not exceed 7s. 6d. per head. (e) That not more than 1 pint of milk be provided daily at half cost to expectant and nursing mothers, where the total weekly income of the family, after deducting the amount paid for the rent of the house, is between 7s. 6d. and 10s. per head.

On approval of the recommended scheme by the ministry of health wide publicity and notice to expectant and nursing mothers is to be given by handbills and otherwise.

Instruction.

The following is a suggested list of suitable subjects for talks imparting useful information collectively to mothers at welfare stations, taken from a report by P. Caldwell Smith, which may be found useful:

Baby clothes.

Best food for Britons.

Breast feeding.

Care of the body.

Care of the feet.

Care of the teeth, eyes, nose, and throat.

Childhood insurance.

Chicken pox and mumps.

Clothing of infants and young children.

Common ailments.

Convulsions.

Cleanliness of person, clothes, sur-

roundings.

Day nurseries.

Early symptoms of infectious diseases.

Feeding of children from 9 months to 3 years of age.

First aid at home.

Flies.

Food substitutes.

Food values.

General hygiene.

Habits and need for early training.

Hay-box cooking [fireless cooker].

Hand-feeding.

Housing.

How infectious diseases are spread.

How to wash woolen garments.

Hygiene of pregnancy.

Indigestion in infants.

Infection and disinfection.

Influenza.

Infantile diarrhea.

Labor-saving devices.

Measles.

Open-air schools.

Ophthalmia neonatorum.

Rashes a baby can have.

Rickets: How caused.

Skin. The.

Sunshine and fresh air.

Superstitions of lying-in period; need for

proper nourishment.

Tonsils and adenoids.
Tuberculosis.

Tuberculosis

Vaccination.

Vermin of all sorts; how to get rid of

them.

Whooping cough.

National kitchens.

Organizations in this borough to help

mothers and children.

Work of welfare centers and how they help mothers.

What did each mother do to practice economy in war time?

For purpose of comparison, the estimated cost of providing milk as outlined is presented. The cost of providing $1\frac{1}{2}$ pints of milk daily for 12 months, free of cost, for 50 children under $1\frac{1}{2}$ years of age (as mentioned in par. a) would be £568, 15s., and that the cost of providing $1\frac{1}{2}$ pints of milk daily for 12 months for 50 children under $1\frac{1}{2}$ years of age, at half cost (as mentioned in par. b), would be £284, 7s., 6d. The medical officer of health also estimates that the cost of providing 1 pint of milk daily for 12 months for 100 expectant and nursing mothers (as mentioned in clause d) would be £760, and the cost of providing 1 pint of milk daily for 12 months for 100 expectant and nursing mothers (as mentioned in clause e) at half cost would be £380.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Feb. 7, 1920.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA,	Cases.	CALIFORNIA—continued.	
Cerebrospinal meningitis.	cases.	Smallpox—Continued.	Cases.
Chicken pox	11	Los Angeles County	. 5
Diphtheria	18	Martinez.	
Influenza.		Marysville	
Malaria	2,300	Riverside County	
	20	San Francisco	
Measles	20	Typhoid fever	
Mumps	42		
Pneumonia (all forms)	10	CONNECTICUT.	
Scarlet fever	29	Cerebrospinal meningitis:	
Smallpox	14	New Haven	. 1
Tuberculosis (pulmonary)	4	Chicken pox	
Typhoid fever	17	Conjunctivitis	
Vhooping cough	. 14	Diphtheria:	
ARKANSAS.		Fairfield County-Bridgeport	. 12
Chicken pox	21	Hartford County-Hartford	
Diphtheria	3	New Haven County—	
Hookworm	1	New Haven	. 5
Malaria	16	Waterbury	
Measles	25	Scattering	24
Ophthalmia neonatorum	1	Influenza:	
Pneumonia	. 12	Fairfield County	676
Scarlet fever	1	Hartford County	
Smallpox	10	Litchfield County	
Tuberculosis	5	Middlesex County	
Typhoid fever	7	New Haven County	
Whooping cough	7	New London County	
		Tolland County	
CALIFORNIA.		Windham County	
Cerebrospinal meningitis:		Lethargic encephalitis	
Oakland	1	Measles:	-
San Francisco	2	Fairfield County—	
Influenza.	-	Bridgeport	. 10
Leprosy:	,, 120	Danbury	
Santa Clara County	1	Norwalk	
Peliagra	1	Stamford	
Smallpox:	•	Hartford County-	
Chico.	8	East Hartford	4
Kings County	5	Enfield.	-
Long Beach	9	Hartford	
roug reach			10

connecticut—continued.		FLORIDA.	Cases.
Measles—Continued.		Diphtheria	3
Hartford County-Continued.	Cases.	Dysentery	1
New Britain	5	Influenza	1,420
Plainville	21	Malaria	6
Southington	15	Pneumonia	67
Litchfield County—		Smallpox	7
North Canaan	4	Typhoid fever	4
Winchester	19	GEORGIA.	
New Haven County-	10		90
Ansonia	28	Chicken pox	26
Hamden	13	Diphtheria	3 7
	48	Diphtheria	
New Haven	48	Dysentery (amebic)	1
New London County-		Dysentery (bacillary)	1
East Lyme	4	Favus	1
New London	13	German measles	2
Norwich	15	Hookworm	74
Scattering	28	Influenza	7,809
Mumps	29	Malaria	9
Pneumonia:		Measles	29
Fairfield County—		Munars	6
Shelton	15	Pneumenia	167
Stamford	5	Poliomyelitis	2
Hartford County—		Scarlet fever	14
Bristol	4	Septic sore throat	10
Canton	6	Smallpox	12
Hartford	11	Tuberculosis (pulmonary)	23
Manchester	6	Typhoid fever	14
New Britain	12	Whooping cough	16
New Haven County—		HIDOG	
Hamden	4	ILLINOIS.	
Meriden	9	Cerebrospinal meningitis:	
Waterbury	6	Chicago	4
Naugaturk	17	Diphtheria:	
New London County-		Chicago	128
Groton	7	Evanston	6
New London	22	Scattering	60
Norwich	17	Influenza:	
Windham County-Putnam	19	Chicago	597
Scattering	29	Scattering	6,640
Poliomyelitis-Woodstock	1	Lethargic encephalitis:	
Scarlet fever:		Chicago	4
Hartford County-		Compton	1
Hartford	7	Decatur	1
New Britain	8	Pneumonia:	
Windsor	9	Chicago	257
New Haven County—	8	Scattering	313
New Haven		Scarlet fever:	
Waterbury	28	Chicago	235
Scattering.	24	Quincy	7
Septic sore throat	1	Riverside	4
Tuberculosis	38	Woodstock	8
		Scattering	65
Whooping cough	51	Smallpex:	
P. S. J. A. W. J. D. S.	1	Chicago	5
DELAWARE.		Hancock County-Pilot Knob Town-	
Chicken pox	2	ship	6
Diphtheria	1	Jacksonville School for Deaf	7
Influenza	43	Kendall County-Fox Township	5
Measles	70	Scattering	44
Mumps	2	Typhoid fever	9
Pneumonia	12		
Scarlet fever:		INDIANA.	
Laurel	5	Cerebrospina! meningitis:	
Wilmington	1	Elkhart County	2
Smallpox	1	Diphtheria:	
Tuberculosis	2	Lake County	13
Whooping cough	4	Scattering	19

Influenza:		lowa—continued.	Canan
	Cases.		Cases.
Clay County	119	Van Buren County Scarlet fever:	
Grant County	275	Council Bluffs	5
Hendricks County	158	Des Moines	
Jennings County	100	Hamilton County.	4
Martin County	300	Scattering.	-
Owen County	130	Smallpox:	00
	129	Davenport	23
Wabash County	672	Mason City	
White County	147	Story County	8
	1,624	Scattering.	
Measles:	1,021	Whooping cough	
Bartholomew County	18	Thought cought.	-
Delaware County	58	KANSAS.	
Grant County	16	Diphtheria	177
Greene County	26	Influenza	
Jay County	23	Scarlet fever	85
Lake County	14	Smallpox	102
Marion County	109		
Switzerland County	20	LOUISIANA.	
Vigo County	29	Cerebrospinal meningitis	1
Wabash County	58	Diphtheria	9
Wayne County	26	Influenza	3, 153
Rabies in anima's:	-	Pneumonia	44
Greene County	1	Scarletfever	8
Scarlet fever:		Smallpox	45
Allen County	4	Typhoid fever	7
Bartholomew County	6		
Carroll County	8	MAINE.	
Clay County	4	Chicken pox	25
Elkhart County	17	Diphtheria	6
Floyd County	5	Influenza:	
Grant County	4	Bath	171
Kosciusko County	6	Farmington	103
Lake County	12	Freeport	120
Marion County	24	Hallowell	105
Monroe County	4	Lakeview	105
Shelby County	4	Mount Desert	120
St. Joseph County	9	Oldtown	100
Tippecanoe County	6	Paris	176
Wabash County	10	Presque Isle	100
Warrick County	4	Sanford	148
Scattering	45	South Portland	403
Smallpox:		Van Buren	150
Delaware County	6	Scattering	1,901
Grant County	4	Measles:	
Lake County	4	Lebanon	14
Marion County	8	North Berwick	41
Putnam County	5	Oxford	9
Spencer County	7	Seattering	7
St. Joseph County	7	Mumps	37
Vanderburg County	6	Pneumonia	139
Wabash County	26	Scarlet fever:	
White County	11	Norway	10
Scattering	26	Presque Isle	4
IOWA.		Scattering	12
		Smallpox	4
Chicken pox	1 18	Tuberculosis	4
Influenza	869	Typhoid fever	6
Measles:	000	Whooping cough	17
10.00	4	MARYLAND.1	
Ackley			00
Ackley	6	Chicken nov	
Council Bluffs	6	Chicken pox	62
	8	Chicken pox. Diphtheria. German measles.	51 5

MARYLAND—continued.	Cases.	NEW YORK—continued.	Cases.
Malaria	1	Diphtheria	169
Measles	335	Influenza	11,304
Mumps	30	Measles:	
Ophthalmia neonatorum		Westchester County	225
Pellagra		Scattering	653
Pneumonia (all forms)	573	Pneumonia	1,689
Scarlet fever	85	Poliomyelitis:	
Septic sore throat	2	Rochester	1
Smallpox	1	Scarlet fever	194
Trachoma	4	Smallpox—Buffalo	4
Tuberculosis	58	Typhoid fever	9
Typhoid fever	1	Whooping cough	186
Whooping cough	47	NORTH CAROLINA.	
MINNESOTA.			9
Cerebrospinal meningitis	3	Cerebrospinal meningitis	3
Smallpox	5	Chickenpox	51
		Diphtheria	23
MONTANA.		Measles	104
Cerebrospinal meningitis	1	Pneumonia (all forms)	455
Diphtheria	2	Scarlet fever	26
Influenza	1,400	Septic sore throat	100
Pneumonia	18	Smallpox	100
Scarlet fever	36	Typhoid fever	3
Smallpox	28	Whooping cough	95
Typhoid fever	1	VERMONT.	
NEBRASKA.		Chicken pox	10
Chicken pox	18	Diphtheria	4
Cerebrospinal meningitis	1	Influenza	1,314
Diphtheria:		Measles	95
Omaha	5	Mumps	156
Scattering	8	Pneumonia	59
Influenza	3,272	Scarlet fever	7
Measles:		Typhoid fever	3
Benkelman	7	Whooping cough	31
Lexington	7		
Lincoln	39	VIRGINIA.	
Omaha	12	Smallpox:	
Scattering	4	Bland County, several.	
Mumps	13	Giles County, several.	
Pneumonia	6	Southampton County	1
Scarlet fever:		Stafford County, several.	4
Dalton	14	Washington County	,
Elgin	4	Wise County, several.	
Lincoln	5	WASHINGTON,	
Omaha	32	Chicken pox	76
Scattering	22	Diphtheria	17
Smallpox:		Influenza	4,596
Brownville	16	Measles	276
Chappell	5	Mumps	72
Lincoln	30	Pneumonia	256
Omaha	10	Scarlet fever	80
Sidney	5	Smallpox	166
Scattering	44	Tuberculosis	4
Whooping cough	1	Typhoid fever	3
NEW JERSEY.		Whooping cough	31
Influenza	2,798	WEST VIRGINIA.	
Measles: Unusually prevalent through the		Diphtheria	15
State.		Measles:	
Pneumonia	850	Wheeling	36
NEW YORK.		Scattering	3
(Exclusive of New York City.)		Scarlet fever:	
		Grafton	4
Cerebrospinal meningitis:		Scattering	8
Aurora	1	Smallpox:	-
Larchmont	1	Beckley	8
Mamaroneck	1	Huntington	1

west virginia-continued.		wisconsin—continued.	
Smallpox-Continued.	C6ses.	Milwaukee—Continued.	Cases.
Salem	14	Tuberculosis	22
Scattering	3	Whooping cough	42
Typhoid fever	3	Scattering:	
**		Chicken pox	39
		Diphtheria	16
WISCONSIN.		Influenza	6,247
Milwaukee:		Measles	387
Cerebrospinal meningitis	1	Ophthalmia neonatorum	1
Chicken pox	39	Scarlet fever	139
Diphtheria	17	Smallpox	93
Influenza	27	Trachoma	1
Measles	28	Tuberculosis	13
Scarlet fever	38	Typhoid fever	5
Smallpox	12	Whooping cough	67
Smanpox	12	" nooping cough	0.
Kentucky Report	or We	ek Ended Feb. 14, 1920.	
Contract Parising and Contract	Cases.		Cases.
Clark County		Fleming County	
Jefferson County		Harrison County	
Kenton County	. 1	Jackson County	
McLean County	. 2	Kenton County	40
Owsley County	. 1	McCracken County	15
Chancroid	. 2	Owsley County	76
Chicken pox	. 55	Simpson County	19
Diphtheria:		Todd County	10
Jefferson County	. 12	Scattering	92
Scattering	. 17	Mumps	19
Dysentery	. 2	Ophthalmia neonatorum:	
Erysipelas	. 1	Jefferson County	. 1
Gonorrhea	. 66	Pneumonia:	
Influenza:		Boyd County	12
Bell County	108	Hardin County	10
Boyd County		Jefferson County	57
Caldwell County		Scattering	173
Campbell County		Scarlet fever:	
Carlisle County		Campbell County	4
Daviess County		Graves County	
Franklin County		Scattering	25
Grant County		Septic sore throat	7
Graves County		Smallpox:	
Harrison County	-	Bell County	7
Jefferson County		Hopkins County	
Kenton County		Knox County	
Larue County		Lincoln County	
Lawrence County		McCracken County	
		McLean County	
Lincoln County		Pike County	
Mason County		Whitley County.	
Meade County		Scattering.	
Pendleton County		Syphilis	
Woodford County		Tonsillitis	
Scattering		Trachoma	
Malaria	. 2	Tracnoma	
Measles:			
Barren County	. 14	Typhoid fever	
Campbell County		Whooping cough	42

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

Tables showing, by counties, the reported cases of cerebrospinal meningitis, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

The following monthly State reports include only those which were received during the current week. These reports appear each week as, received.

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
Arizona (January, 1920) California (December, 1919)	2 7	8 425	160 111	17	1,743	2		20 501	10 341	1 38
Colorado (December, 1919)	i	55			41			82	343	7
Delaware (January, 1920)		41	28		300			28	16	-4
Florida (January, 1920)	7 9	81	2,057	116	53	4	1	17	238	47
Illinois (December, 1919)	9	1,207	668	68	1,827		11	1,885	629	165
Louisiana (January, 1920)	15	91	968	58	57	4	1	35	123	44
Maryland (January, 1920)	2	339	4,057	1	992		3	399	14	39
Michigan (January, 1920)		882			3,640		3	977	478	48
Minnesota (December, 1919)	5	363	36		441		2	208	397	45
Nebraska (January, 1920)	3	61	2,988		41			358	538	7
New Mexico (January, 1920)	1	51	335	3	135		1	60	102	15
Rhode Island (January, 1920)	4	147	1,170		72		1	115		1
Vermont (January, 1920)	1	41	118		487			72		12
West Virginia (January, 1920)	10	287	3,536		184		1	283	431	135

RECIPROCAL NOTIFICATION.

Minnesota-December, 1919.

Cases of communicable diseases referred during December, 1919, to other State health departments by department of health of the State of Minnesota.

Disease and locality of notifi- cation.	Referred to health authority of-	Why referred.
Tuberculosis: Mayo Clinic, Rochester, Olmsted County.	Lemoore, Kings County, Calif. Decatur, Macon County, Ill. Sheldon, Iroquois County, Ill. Sheldon, Iroquois County, Ill. Story City, Story County, Iowa. Decorah, Winneshiek County, Iowa. Hanlontown, Worth County, Iowa. Brooks, Adams County, Iowa. Gharles City, Floyd County, Iowa. Missoula, Missoula County, Mont. Billings, Yellowstone Co., Mont. Wayne, Wayne County, No. Hayti, Morton County, N. Dak. Arthur, Cass County, N. Dak. Springfield, Clark County, Ohio. Hayti, Hamlin County, S. Dak Platteville, Grant County, Wis.	11 moderately advanced. 1 apparently cured. 1 apparently arrested; left Mayo
City and County Hospital, Ramsey County.	Lysite, Fremont County, Wyo Sioux City, Woodbury County, Iowa. Jamestown, Stutsman County, N.	Left hospital for his home in Sioux City, Iowa. Left hospital for his home in James-
Thomas Hospital, Minne- apolis, Hennepin County.	Dak. Cogswell, Sargent County, N. Dak Philadelphia, Philadelphia County, Pa. Sandusky, Sauk County, Wis	town, N. Dak. Left hospital for his home at Cogswell, N. Dak. Left hospital for her home in Philadelphia. Left hospital for his home at Sau-
Typhoid fever: Redwood Falls, Redwood County.	Chautauqua, Chautauqua County, N. Y.	dusky, Wis. Was living at home in Chautauqua, N. Y., 3 weeks previous to first
St. Paul Hospital, St. Paul, Ramsey County.	Buffalo, Cass County, N. Dak	symptoms. Taught school at Buffalo, N. Dak., 3 weeks previous to first symp-
Diphtheria: Blooming Prairie, Steele County.	Chicago, Cook County, III	toms. Came to Blooming Prairie from Chicago to spend Christmas vacation.
Smallpox: Redpath Township, Tra- verse County.	Estherville, Emmet County, Iowa	Came to Redpath Township, from Estherville, Iowa, Dec. 27, 1919.

ACTINOMYCOSIS,

Illinois Report for December, 1919.

During the month of December, 1919, one case of actinomycosis was reported in Illinois.

ANTHRAX.

Philadelphia, Pa.—Week Ended February 7, 1920.

During the week ended February 7, 1920, one case of anthrax was reported at Philadelphia, Pa.

CEREBROSPINAL MENINGITIS.

State Reports for December, 1919, and January, 1920.

Place.	New cases reported.	Place.	New cases reported.
Arizona (January, 1920): Coconino County	1 1	Louisiana—Continued. Evangeline Parish. Franklin Parish.	
Glla County		Lafa, ette Parish	
		Orleans Parish	1 :
California (December, 1919): Fresno County	1	Total	
FresnoGlenn County	1		1
Los Angeles County — Los Angeles	1	Maryland (January, 1920): Baltimore	:
San Francisco.	4	Minnesota (December, 1919):	
Total	7	Hennepin County— Minneapolis.	
Colorado (December, 1919): Weld County	1	Robbinsdale Lake County—	
Florida (January, 1920); Duval County—	and of responses	Two Harbors Murray County— Iona Lake	
Jaeksonville Escambia County	1	Total	
Hillsboro County Tampa		Nebraska (January, 1920):	
Lafayette County	1	Saline County	:
Pinellas County	1	New Mexico (January, 1920): Hidalgo County	
Total	7	Rhode Island (January, 1920):	
Illinois (December, 1919): Cook County Chicago	2	West Warwick (town)	
Harvey Franklin County—	1	Total	1 4
West Frankfort Montgomery County—		Washington County—	er.
Litchfield Peoria County—		Northfield	
Hollis Township	1	West Virginia (January, 1920): Fayette County	
St. Clair County— East St. Louis.	1	Greenbrier County	1
Mascoutah		Kanawha County Marion County	
Total	9	Mercer County	1
Louisiana (January, 1920): Allen Parish Bossier Parish	1	Ritchie County Wetzel County	1
Calcasieu Parish	1	Total	10

CEREBROSPINAL MENINGITIS—Continued.

City Reports for Week Ended Feb. 7, 1920.

Place.	Cases,	Deaths.	Place.	Cases,	Deaths.
Appleton, Wis. Attleboro, Mass Baltimore, Md. Buffalo, N. Y Chicago, Ill Dallas, Tex Detroit, Mich. Flint, Mich. Galveston, Tex Gary, Ind. Kansas City, Mo. Los Angeles, Calif.	2	1 1 1 1 1	Minneapolis, Minn. New York, N. Y Passaic, N. J Peoria, III. Portland, Oreg Racine, Wis Sacramento, Calif. Salt Lake City, Utah San Francisco, Calif. Wansan, Wis. Worcester, Mass Wilkes-Barre, Pa	7 1 2 1 1 1 1 3	

DIPHTHERIA.

See Telegraphic weekly reports from States, page 464; Monthly summaries by States, page 469; and Weekly reports from cities, page 494.

INFLUENZA.
State Reports for December, 1919, and January, 1920.

Plue.	New cases reported.	Place.	New cases reported
California (December, 1919):		Illinois - Continued.	
Alameda County—	1	Alexandria County	
Oakland	2	Thebes	1 5
Butte County—		Delta	1 2
Chico	1	Bond County—	1
Fresno County-		La Grange Township	1 :
Firebaugh	1	Boone County-	1
Selma	1	Belvidere	1 1
Glenn County—	-	Bureau County-	
Orland	1	Buda	1 :
Humboldt County→		Carroll County-	1
Eureka	11	Chadwick	1
Imperial County -		Mount Carroll.	
El Centro	9	Champaign County-	1
Kern County.	2	Champaign	1
Taft	5	Homer	
Kings County	9	Christian County	
Los Angeles County	6	Assumption	1 1
Long Beach	2	Clay County-	1
Los Angeles.	20	Louisville	1 16
San Fernando.	1	Clinton County	
Monterey County-		Breese	1 1
King City	4	Germantown	
Orange County.	2	Cook County-	1
San Bernardino County—	- 1	Chicago	210
Ontario	1	Evanston	
San Bernardino	1.1	LaGrange	1
San Diego County—		Moss Point	1
San Diego	1	Lyons	1
Santa Barbara County—	- 1	Oak Park	
Santa Barbara	4	Dewitt County-	
Santa Clara County	il	Clinton	1 1
Siskiyou County—	- 1	Dupage County-	
Fort Jones	1	Wheaton	4:
Sonoma County	3	Effingham County—	
Tulare County—	9	Effingham	1 2
Lindsay	1	Montrose	
Yolo County	2	St. Francis Township	
Davis	ī	Fayette County—	
Winters	i	Brownstown	1 :
San Francisco	17	Ford County	1
P. Carlotte and P. Carlotte an		Rogers Township	
Total	111	Franklin County—	
Illinois (December, 1919):		Cave Township	
Adams County—		Hancock County-	1
Quincy	1	Augusta	

INFLUENZA—Continued.

State Reports for December, 1919, and January, 1920-Continued.

Place.	New cases reported.	Place.	New car reporte
linois—Continued.		Illinois-Continued.	100
Henry County		0 0	
Cambridge	4	Springfield	1
Orion	2		
roquois County -		Bluffs	1
Milford	1	Naples	1
Jackson County		Shelby County—	1
Grand Tower	1	Cowden	1
Jasper County -		Shelbyville	1
Rose Hill	1	St. Chir County-	1
Jefferson County		Casevville Township	1
McClellan Township	4	East St. Louis	1
Waltonville	3	Stites Township	1
Johnson County		Stark County-	
Cypress	1	La Fayette	1
Vienna	2	Wyoming	1
		Stephenson County-	Į.
Apple River	2	Freeport	
Kane County		Ridott Township	
Batavia	6	Tazeweh County-	1
Maple ParkSugar Grove Township	1	Pekin	
Sugar Grove Township	1	South Pekin	
Kankakee County		Union County	
Manteno	.5	Union County	
Saline Township	2	Vermilion County	
Saline Township St. Anne Precinct	7	Sidell	
Kendall County-		Whiteside County—	
Fox Township	1	Sterling	
Knox County		Will County-	
Oneida	11	Peotone	
Lake County—		Mokena	
Zion City	4	Williamson County-	
Lawrence County—		Carterville	
Russellville	6	Granville	
Lee County		Winnebago County-	
Ashton Township	2	Winnebago	
Livingston County		Woodford County-	
Chatsworth Township	8	Eureka	
Chatsworth Township	5	Eureka Palestine Township	
Forest Township	2	Secor	
Logan County— Lincoln	1		
Lincoln		Total	6
Belleflower Township	1	Maryland (January, 1920):	
Empire Township	2	Baltimore	2,2
Macon County	-	Allegany County	
Argenta	9.1	Cumberland	
Decatur	6	Rural districts	
Macoupin County		Camp Meade Anne Arundel County—	1
Palmyra	1	Anne Arundel County—	
Virden	i	Annapolis	
Madison County	- 1	Ruraldistricts	
Bethalto	4	Baltimore County—	
New Douglas	i	Ruraldistricts	2
Mason County		Carroll County-	
Friends Creek Township	2	Westminster	erd :
Mason City	1	Rurardistriets	CIO 1
Marshall County		Calvert County	
Steuben Township	9	Rural districts	
Sparand	S	Caroline County	
Menard County -		Raral districts	
Tallula	2	CecilCounty	
Mercer County -	2.1	Rural districts	
Windsor	ä	Charles County	-
Ogle County -		Rural districts	1
Mount Morris Township	1	Indian Head Proving Ground	
Peoria County -	. 1	Dorchester County—	
Brimfield	.1	Cambridge	
Peoria	11	Rural districts	
Pike County	. 1	Frederick County	
Alton Township	4	Frederick	1
Hull	2	Rural districts	3
Pleasant Vale Township	1	Pural district	
Putnam County-	. 1	Rural districts	2
Greenville Township	1	Harford County— Bel Air	
Rock Island County	1	Ruraldistricts	3
Rock Island	1	Howard County-	9
Saline County—			

INFLUENZA—Continued.

State Reports for December, 1919, and January, 1920-Continued.

Place.	New cases reported.	Place.	New cases reported.
Maryland—Continued.		Minnesota—Continued.	
Kent County—		Crow Wing County—	1
Rural districts	8	Crosby	1
Montgomery County —		Goodhue County—	
Rural districts	380	Cannon Falls	1
Prince George County—	****	Hennepin County-	
Rural districts	198	Minneapolis	7
		Isanti County—	
Rural districts	- 3	Isanti Township] 1
Somerset County—		Kittson County -	
Crisfield	1	Kennedy	3
Rural districts	6	Lyon County—	
St. Marys County-		Cottonwood	1
Rural districts	S	Morrison County-	
Washington County—	00	Little Falls	1
Hagerstown	93	Swanville	â
Rural districts	8	Platte Township	
Wieomico County-	0	Ramsey County-	
Salisbury	2 5	St. Paul.	1
Rural districts	3	Stearns County-	
Total	4 057	St. Cloud	1
Total	4,057	Holding Township	2
Consents (Desember 1010):		Stevens County-	
linnesota (December, 1919):	- 1	Chokio Todd County	1
Aitkin County—			
Clark Township	1	Ward Township	4
Cass County— Remer	1	Total	ne.
Remer	1	Total	36

City Reports for Weeks Ended Jan. 31, and Feb. 7, 14, and 21, 1920.

		Cases we	ck ended-	-	Deaths week ended—			
Place	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	Jan. 31.	Feb. 7.	Feb. 14.	Feb. 21.
Adams, Mass		72	50				1	
Akron, Ohio		134	251					
Alameda, Calif		260	201	160	7	5	9	
Mexandria, Va		26						
Illiance, Ohio	16	51	98					
Upena, Mich		10	9					
Ulton, 111		428	116	39		11	14	
mesbury, Mass		65	97	39				
Anaconda, Mont		2	5			1	******	
Inderson, Ind			43/3		3			******
Ann Arbor, Mich		152	82 67	78	3	1	*******	
nniston, Ala		69		110			*******	******
Ansonia, Conn		363 81	215	110		1		
ppleton, Wis		68		30	1	1		
Arlington, Mass		23	28	6				1
Asbury Park, N. J		131	253	258				
shland, Ky		121	38	25	1	2	4	
shtabula, Ohio		1.868	2,258	1.427	1	16	50	7
tlanta, Ga		50	39	22	i	10	30	
Atlantié City, N. J		117	29	15			1	
ttleboro, Mass		24	33	47				*******
luburn, Me luburn, N. Y		90	33	18				
		90		10	1	2	2	
Austin, Tex		3,412	4,530	1.614	14	14	73	7
angor, Me		49	193	85	11	1.0	10	**
arberton, Ohio	7	2	100	00		1	2	******
Barre, Vt		-	1				-	
aton Rouge, La	1	1		*******	1	1		
lattle Creek Mich		111		4			********	*******
ayonne, N. J.		108	77	31				
Beatrice, Nebr		17	16	0.				
caumont, Tex		4.	74			1	1	
edford, Ind.		4	6	2				
Belleville, N. J.		42	29	ī	*******			
eloit, Wis.		89	20					

INFLUENZA-Continued.

City Reports for Weeks Ended Jan. 31, and Feb. 7, 14, and 21, 1920-Continued.

		Cases wee	ek ended-	-	1	Deaths week ended-				
Place.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	Jan. 31.	Feb.	Feb	Feb. 21.		
Benton Harbor, Mich	200	150		2						
Berkeley, Calif Beyerly, Mass	. 326	385	347		. 7	6	8			
Beverly, Mass	. 14	55	66	15		1	1	. 1		
Biddeford, Me			76				4			
Billings, Mont Birmingham, Ala Bloomfield, N. J.	101	53	8				1			
Bleomfield N. I	47 21		10	444	4	11	6	27		
Bloomington III	33	201	12	3	1 2		1	1		
Bloomington Ind	1303	38	52	21	-		1	4		
Bloomington, 111. Bloomington, 11d. Bluefield, W. Va. Boise, Idaho.	25	100	137	81				1		
Boise, Idaho	153	45	53							
Hoston, Mass	1,603	2,859	2.113	760	25	66	139	106		
Brazil, Ind. Bridgeport, Conn.	1	2	157	116						
Bridgeport, Conn	406	649	437	287	7	24	24	19		
Bristol, Conn	45	95	158	46	1	1	1	1		
Brockton, Mass. Brookline, Mass. Brunswick, Ga. Buffalo, N. Y.		60 46	45	8			4	!		
Drookiine, Mass	54		72	33		3	4	1		
Buffalo N V	470	1,260	1.333	92	8	34	81	*******		
Burlington Iowa	95	83	28	5		1	2	********		
Burlington, Vt.	2	1	12	24		i	3			
Burlington, Iowa Burlington, Vi. Butler, Pa. Butte, Mont.	28	77	38	52						
Butte, Mont	68	112	66	10		2	2			
Cadillac, Mich		12	75	200				3		
Cairo, Ill	14	125	105	112				2		
Cadillac, Mich	256	501	600	183	2	4	12	9		
Canton, III		000			2	12	9	6		
Canton, Onio	859	398	53	25	20	19	19	3		
Canton, Ohio Cape Girardeau, Mo Cedar Rapids, Iowa	151 142	97	14		1			*******		
Centralia III	92	107	19	11	1		*******	*******		
Centralia, Ill	16	150	121	**	*********	2		*******		
Charleston, S. C	219	826	1,208	759	1	2	16	33		
Charleston, W. Va	340	921	210	35						
Charleston, S. C. Charleston, W. Va Charlotte, N. C.	102	1 237	393	123		4	4	7		
hattanooga Tenn	57	170	181	106	1	1	3	14		
helsea, Mass	107	148	116	31	1	5 .		2		
Chelsea, Mass	1.4	********	1	1	2		1	1		
hicago, III	9,955	4,641	1.741	597	586	560	240	127		
micopec, mass	3 8	4	5	17			1	******		
Chillicothe, Ohio	105	388	450	57		10	799	********		
Sloveland Ohio	1.084	2,243	1.064	334 483	1 16	19	33 151	41 102		
leveland, Ohio. linton, Mass. offeyville, Kans. lohoes, N. Y.	1.001	7	25	29	10	19	101	102		
offevville, Kans	N	33	118	103			1			
ohoes, N. Y.	73	245	107	60			- 1	*****		
Jonoes, N. Y. Jolorado Springs, Colo. Columbia, S. C. Jolumbus, Ga. Jolumbus, Onio. Joneord, N. H. Jorpus Christi, Tex. Jordiand N. Y.	378				1					
Columbia, S. C	101	313	387	168						
olumbus, Ga	10	152	351	192			3	7		
olumbus, Ohio	512	2,013	702	160	5	34	68	49		
oncord, N. H		1 -								
orpus Christi, Tex		41	114	28				4		
ortland, N. Yoshocton, Ohio	29		32	27				nak tern		
ouncil Bluffs, Iowa	1	47	132			8				
owington Ky	15	101	93	103	1 2		5			
ovington, Ky ranston, R. l umberland, Md	15	22	16	8	- 1			3		
umberland, Md	112	423	403	252		2	6	4		
allas, Tex	1, 569	1,114	818	207	14	26	22	17		
Panbury, Conn Panvers, Mass Panville, III	152	254		17						
anvers, Mass		24	35	17				*******		
anville, III	1,000		800	286			5 .			
anville, Va	61	298			1 .					
avenport, Iowa	310	132	18	4	1 .			*******		
ecatur, III	25	19	5	3	10	13	5	16		
edham, Mass	460	210	82	15	5	5	5	2		
enver, Colo			62	141	19	74	81	32		
es Moines, Iowa	18		02	141	19		OI.	32		
es Moines, Iowa etroit, Mich over, N. H	6, 922	1,529	282	36	134	254	185	55		
over, N. H	5	13	50	31						
n bois, Pharmananana			150	140				1		
ubuque, Iowauluth, Minn		317	51	2 .		16		2		
uluth, Minnast Chicago, Ind	324	425	223	35	2	18	24	9		

¹ Including pneumonia.

INFLUENZA—Continued.

City Reports for Weeks Ended Jan. 31, and Feb. 7, 14, and 21, 1920—Continued.

		Cases we	ek ended-	-	Deaths week ended—			
Place.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.
East Cleveland, Ohio		. 38						
East Cleveland, Ohio Easthampton, Mass East Orange, N. J. East Providence, R. I.	1	14	117					
East Orange, N.J	293		117	22	2	3	2	1
East Providence, R. I	476	338	111	29	6	6	6	
East St. Louis, Ill	101	6	3	20		1	1	2
Elgin, Ill	82	32	6		2			
Elmira, N. Y	9	12				1		******
El Paso Tov	1				1	3	8	14
Englewood, N. J.	34 401	2,587	985	236	1	29	29	25
Erie, Pa Eureka, Calif	401	2, 387	983	230	1	1	20	20
Evanston, Ill	187	67	10	7				
Evansville, Ind	******	. 26				1		
Everett, Mass	119	117	89	38			å	1
Fairmont, W. Va	39	178	594	435		2	1 6	
Findles Obje	34 24	185	197	81	******	2	0	11
Flint Mich	569	361	26			6	5	
Fond du Lac, Wis	89	183				3		
Fort Dodge, Iowa	12		14	2				
Everett, Mass. Fairmont, W. Va Fall River, Mass. Findlay Ohio. Flint, Mich. Fond du Lac, Wis Fort Dodge, Iowa. Fort Scott, Kans. Fort Scott, Kans. Fort Scott, Kans.	2							*******
Fort Smith, Ark	521	******	******	138	3	7	5	3
Fostoria, Ohio	12	40	13	3	3	•	0	43
Framingham, Mass	15	51	47	48			2	2
Freeport, Ill.		1 19	1.5	1 12	1 18	1 13	18	12
Freeport, IllFremont, Ohio	12	4	2					
Galesburg, III		101	61	15	1		2 2	1
Galveston, Tex	71	274	342	72		1	2	3
Cory Ind	2	15		12	12	7	8	2
Gary, Ind	301	414	432	152	1.2	4	5	4
Granite City, Ill		116	35	14		1	i	
Granite City, Ill Great Falls, Mont Green Bay, Wis Greenfield, Mass	10	48	113	193	1			12
Green Bay, Wis	36	79						
Greenfield, Mass	30	108	36	23		1	1	3
Greenwich, Conn	131 175	127 118	44 25	47 29	2	1	,	3
Hackensack, N. J	170	110	20	29	2		2	2
Harrison, N. J.		7	2	1				
Hartford, Conn	550	602	116	27	4	22	32	19
Hammond, Ind	129	380	543	208	1	8	10	2
Hibbing, Minn	70	316	245	35				1
Hibbing, Minn Highland Park, Mich Hoboken, N. J Holland, Mich Hollyoke, Mass	316 49	147	58 4	3	2	3	3	********
Holland Mich	24	16	10	9			1	
Holyoke, Mass	29	37	31	24	1		1	1
Hot Springs, Ark	30	135	211				*******	*******
Hot Springs, Ark Huntington, Ind. Huntington, W. Va. Hutchinson, Kans	30		1			1	1	*******
Huntington, W. Va	10 50	626	584 39	91			1	*******
Independence Vo	100	200	6	11	6	20	16	11
Independence, MoIndianapolis, Ind	481	200	211	76	6		124	38
Ironton Ohio		21		******		*******	******	********
Ironwood, Mich	5	58	199				4	********
Ishpeming, Mich	1	5	34	47				2
thaca, N. Y	130	248 251	291	68 11	2		1	******
Jacksonville, III	573	962	274	104		i		*******
Janesville, Wis	136	12	214	101	3	3		********
Jefferson City, Mo							1	*******
tthaca, N. Y. Jacksonville, III. Jarksonville, III. Jamestown, N. Y. Janesville, Wis Jefferson City, Mo. Jersey City, N. J. Joplin, Mo. Kalenwago, Mich.	766	244	69	20			******	*******
oplin, Mo	20	185	40	14		4	**************************************	3
Kalamazoo, Mich Kankakee, Ill	9.4	283	298	87		4	3	1
	34 745	56 722	22 290	41	3			
Kansas City, Mo.	1, 354	720	191	55	72	32	90	40
Kearny, N. J	175	147	69	39	1			
Keene, N. H	10	45					2	******
Kansas City, Mo. Kearny, N. J. Keene, N. H. Kenosha, Wis.	308	241						
Knoxville, Tenn	431	698 103	622	70		15	29	
Lackawanna, N. Y La Crosse, Wis	29 230	309	194 80	76	******		-	
LIE V. LUNNER WY IN A CARACACACACACACACACACACACACACACACACAC	600	56	55	4	1	1		

¹ Including pneumonia.

INFLUENZA—Continued.

City Reports for Weeks Ended Jan. 31, and Feb. 7, 14, and 21, 1920—Continued.

		Cases wee	ek ended-	-	Deaths week ended-			
Place.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.
ancaster, Ohio		9	60	8				
ancaster, Pa	20	123	45	9				
a Salle, Ill	141	87	29	*******	1	1	7	
awrence, Kans	39	205	143 108	85 64		1	3	
awrence, Mass	47 17	109	109	14		1	1 3	
eavenworth, Kanseominster, Mass	15	32	106	1.4			1	
exington, Ky	3	44	97	80			i	
dma, Ohio		127	197	14		1	i	
incoln, Nebr	76	40	4			9	8	1
incoln R I	8	16	17	11		1		
ittle Rock, Arkockport, N. Yogansport, Ind	150	744	610					
ockport, N. Y	22	136	175	71			4	1
ogansport, Ind		*******				2	1	1
ong Beach, Calll	53	128		95				1
orain, Ohio	103	200	80	39	2	2		1
os Angeles, Calif	675	2,215	2,563		8	4 7	12	
ouisville, Ky	220	492	432	172	2	7	5	
owell, Mass	70	214	407	349	1	******	*******	-
udington, Mich	33	100 207	74 306	127	1		8	
ynchburg, Va	133	333	280	137	1	8	26	
ynn, Mass	133	24	200	10,		î	20	
acon, Gaadison, Wis	336	221			14			
alden, Mass	154	439	315		1 13	5	10	
anchester, Conn	148	194	59	6	2	2	10	
anchester, N. II	64	87	104	61	ī	ī	12	1
anitowoe, Wis	170	235						
ankato, Minn		6	16	2	2	1.4	2	
arinette, Wis	113	192						
arion, Ind	19	60	56	44			2	
arion, Ohio	61	14		4				
ariboro, Mass	7							
arquette, Mich	157							
artins Ferry, Ohio	1	12	40				2	
ason City, Iowa	8	24	5		1			
attoon, Ill	45	82	36					
ediord. Mass		65	82	39	*******		2	
elrose, Mass	31	1 222	40	327	1	7	22	
emphis, Tenn	753 158	1,333	1,085 270	103	1	2		
eriden, Conn	22	46	32	27	*******	-		
ethueu, Massiddletown, N.Y	44	89	34		*******	********	*******	
ilwaukee, Wis	796	27				10		
inneapolis, Minn	2,074	1,225	149		46	131	1	
ishawaka, Ind	1				5	2	1	
issoula, Mont	70	125	141	32	1	1	2	
obile, Ala	8	302	675	482	1	4	10	1
obile, Alaonmouth, Ill			20	36		1		
onroo La	6							
ontgomery, Ala	49		99	126	1		1	
organtown, W. Va	50	317	281	123		*******		
ontgomery, Ala organtown, W. Va orristown, N. J. cundsville, W. Va.	50	66	31	4	5	1		
ound Vornon N. Va	284	102	62	19	3	2		
ount Vernon, N. Y	20	282 43	183	51		2	3	
westing Town	14	4.0	9	********			2	
uscatine, Iowa	75	130	124	*******		******	ĩ	******
shville Tenn	15	29	182	134	2	2	10	
wark, N. J.	2,932	20	1,498		31	62	52	
shville, Tenn	8	170	289	201				
w Britain, Conn	357	659	462	178	1	3	13	
ew Britain, Connew Brunswick, N. J	160	165	85	10				
wburgh, N.Y	9		*******				*******	
ewburyport, Mass	12	43	48	12				
w Haven, Conn	242	278	190	163	8	11	37	
	118	98	119	47			******	
w London, Conn	246	502	782	178	9	4	17	
ew London, Conn		585	905	313	*******		9	
ew London, Conn	64		58	*******	*******	1	7	
ew London, Conn	83	152	0.00					3
ew London, Conn		21,388	8,091	3,030	557	965	731	
ew London, Connew Orleans, La. ewport, R. I. ewton, Mass. ew York, N. Y. agara Falls, N. Y.	83 30, 456	21,388	8,091	3,030		1	6	
ew London, Conne ew Orleans, La. ewport, R. I. ewton, Mass ew York, N. Y. agara Falls, N. Y.	83	21,388	8,091 358 241		2		6 2	
ew London, Come ew Orleans, La ewport, R. I. ewton, Mass. ew York, N. Y. agara Falls, N. Y. ortok, Va orth Adams, Mass.	30, 436 280	21,388 173 602	8,091 358 241 76	62		1	6 2 2	
ew London, Conne ew Orleans, La. ewport, R. I. ewton, Mass ew York, N. Y. agara Falls, N. Y.	83 30, 456	21,388	8,091 358 241			1	6 2	

INFLUENZA—Continued.

City Reports for Weeks Ended Jan. 31, and Feb. 7, 14, and 21, 1920-Contd.

		Cases we	ek ended-	-	1	Deaths week ended—			
Place.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	
Norwalk, Conn	22 176	20			2		3		
Norwich, Conn		59		30	3		10		
Norwood, Ohio	1	16	3	0.00		90			
Oakland, Calif Oak Park, Ill	438 129	41	11	378	12	38	3		
Ogden, Utah	312	- 11	1 11	-	3		0	*******	
Oklahoma City, Okla	724	264	44	38	4	8	12	1	
Oklahoma City, Okla Olean, N. Y		2	43						
Omaha. Nebr	400	144	30	6	12	30	29	1	
Orange, N. J	120	131	58	25		4	1		
Oshkosh, Wis	265 24	142 45	123	54			*******	******	
Paducah, Ky Parkersburg, W. Va	40	146	39	19		9	6	*******	
	32	113	114	1					
Pasadena, Calif	107	223	165	81					
Passaic, N. J	216	267	139	76	1	2	2		
Paterson, N. J	270	296	173	92			7	*******	
	26 320	333	145	28	1	1	3		
Parth Ambay N I	90	67	16	10	1		0		
Petersburg, Va	80	182	210	160				*******	
Peoria, Ill	1,321	2,627	2,212	1,069	16	107	200	218	
	35	127	25						
Pittsfield, Mass Painfield, N. J	120	181	145	26		8 7	5	1	
Pantice Mich	309	308	103	22			4	******	
Port Choster N V	51	35	43	16			1		
Pontiac, Mich	206	00	102	10	1		7	********	
Portland, Me Portland, Oreg. Portsmouth, N. H	294	543	380	133	1	7	12	1	
Portland, Oreg	215	553	742		2	4	29		
Portsmouth, N. H	17	49	15	9					
Cortsmouth, N.H. Portsmouth, Ohio. Portsmouth, Va Poughkeepsie, N. Y. Providence, B. I. Provo, Utah	197	645	*******	*******	1	8 2			
Poughkoepsie N V	200	699 52	49		2	3	*******		
Providence, R. I	574	1,488	1, 201	724	2	13	30	2	
Provo. Utah		1,700	560						
			33	1	1	1	2	2	
Quincy, Ill	33	230	69	12		1	2	2	
Quincy, Mass	86	84	36		1		3		
Quincy, III Quincy, Mass Racine, Wis. Rahway, N. J.	202 18	135			*******	********	*******	*******	
Raleigh, N. C.	526	689	758	1 252			2		
Reading, Pa	375	260	100	48	2	18			
Rediands, Calif		5	8						
	28	43				3			
Reno, Nev	6	59		62		1	******		
Sichmond, Ind	1,866	2,516	842	1 359	10	23	20	10	
Riverside Calif	3	65	97	106	10	20	20	10	
Renc, Nev Richmond, Ind Richmond, Va Riverside, Calif. Rochester, N. Y. Rock ford, Ill.	1,217	1,357	601	175	9	25	21	12	
Rockford, Ill	*******	68				*******		5	
Rock Island, Ill	165	172		15		1			
Rocky Mount, N.C	100	250	250	259			5	2	
Rome N V	17 58	148	516	646			9	********	
Rutland, Vt	90		124				1		
	222	271	173	153	8	5	10	2	
t. Cioud, Minn	57	152	78	25				1	
t. Joseph, Mo	219	884	654	164	2	4	6	11	
t. Paul, Minn	1,071	413	44		55	61	48	*******	
alem, Mass	13	13 39	67	4		1	2	******	
alt Lake City, Utah	1, 233	1,288	476	74	6	48	52	21	
an Bernardino, Calif	1,200	45	70						
an Diego, Calif	118	392	259				7		
an Diego, Califandusky, Ohio	62	101	81	31				2	
anferd, Me	52	141	203	148					
an Francisco, Calif	789	1, 474			27	71		******	
anta Ans, Califanta Barbara, Calif	110	108	********		1			*******	
anta Cruz, Calif	110	108	5	******					
aratoga Springs, N. Y	49	134	267	164	1				
augus, Mass	24				1		******		
auit Ste. Marie, Mich	19	55	39	7				*******	
avannah, Gachenectady, N.Y	24 38	595 91	1,588	972	3	6 5	16 10	44	
		141							

INFLUENZA—Continued.

City Reports for Weeks Ended Jan. 31, and Feb. 7, 14, and 21, 1920-Continued.

		Cases we	ck ended-	-	Deaths week ended—			
Place.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.	Jan. 31.	Feb.	Feb. 14.	Feb. 21.
Sioux Falls, S. Dak	253	286	60	1 28	1	5	4	
omerville, Mass		396		72	1	1	12	
cuth Bend, Ind		25		ī	5			
outhbridge Mass	6	20	1 "					******
outhbridge, Mass partanburg, S. C	153	480	305		4	5	3	
nokana Wash	4	100	300					
pokane, Wash pringfield, Ill pringfield, Mass	36		76	A			2	
pringfield Mass	36	188	201	78	1	4	12	
pringfield, Mass	30	100	201	10	i	5	5	
pringfield, Mo	139	050	122	10		3	4	******
pringfield, Ohioamford, Conn	109	252		10		0	-3	
amiora, Conn		76	16					******
aunton, Vaeelton, Pa	67	122	99	32			1	
celton, Pa	4	45	4	3		1		
enbenville, Ohio	5	4	2	1				
illwater, Minn			6					
ockton, Calif	115	212	142		3		1	
racuse, N. Y	474	62	15	10	8	32	25	
unton, Mass	11	34		44		4	1	
erre Haute, Ind	4	34	10	15				
ffin, Ohio	33	56	71				1	
oledo, Ohio	235	299	274	62	7	19	19	
aneka Kans	-194	418	591	229	1	5	5	
averse City, Mich	17	72	73	39				
enton, N.J	286	380	223	160	2	5	14	
inidad, Colo		95						
inidad, Colooy, N. Y	60							
ieson, Ariz		10	2					
iscaloosa, Ala	60	10	-					
ler, Tex	71		1					
nion, N. J.		3						
llejo, Calif		100	50					
rginie, Minn	26	95	196					******
and Tow	63	45	13	1			3	******
aco, Texalla Walla, Wash	6	40	10	1			9	
altham, Mass	, ,	290	212	92			1	******
	1 616	557	298	101	77	62	34	
ashington, D. C	1,616	448	146	101	"	0.2	1	
aterbury, Conn	1, 157							******
atertown, Mass	32	35	34	8				*****
atertown, N. Y	9	154	211	125			3	
ausau, Wis	115	346	115				1	
ausau, Wis ebster, Mass estfield, Mass	7							
est Heboken, N. J. est New York, N. J. est Orange, N. J. heeling, W. Va.		6	57	44				
est Hobozen, N.J		91	19	4		2 .		
est New York, N.J	19	5			15	1		
est Orange, N.J	114	93		11	2	2 .		
heeling, W. Va	27	82	134	63		1	9	
me rame, a ranco	231				1			
ichita, Kans	214	230	165	142	2 2	1	3	
lkes-Barre, Pa					2	10	11	
ikinsburg, Pa	9	90	42	18				
Imington, N.C	54	41		581				
lkes-Barre, Pa. lkinsburg, Pa. lmington, N.C.		26	26					
indham, Conn			8					
inona, Minn	15	56	55	12	1			
inston-Salem, N. C		1,810	1,810	532	2	7	19	
inthrop, Mass	55	73	51	24		2 .		
inthrop, Mass oburn, Mass	00		0.			1	2	
creester, Mass	206	163	418	269	4	7	18	
orcester, Massnkers, N. Y	148	55	53	14	i	6	5	
nesville, Ohio	1.10	00	308	4.1		- 0	9.1	

¹ Including pneumonia.

LEPROSY.

La Junta, Colo., and Omaha, Nebr.

During December, 1919, a case of leprosy was reported at La Junta, Colo., in the person of Mrs. T., a Mexican.

During January, 1920, a case of leprosy was reported at Omaha, Nebr., in the person of C. Y., a veteran of the Spanish-American War.

LETHARGIC ENCEPHALITIS.

California and Illinois.

During the week ended February 7, 1920, one case and one death from lethargic encephalitis were reported at Oakland, Calif. During the month of December, 1919, 18 cases were reported in Illinois, 16 of which occurred in Chicago and two in Aurora, Kane County.

MALARIA.

State Reports for December, 1919, and January, 1920.

Place.	New cases reported.	Place.	New case reported	
California (December, 1919):		Illinois—Continued.		
Los Angeles County—		Clinton County-	ì	
Los Angeles.	1	Germantown		
San Francisco	3	Cook County-	1 3	
Presidio	3	River Forest	1	
Santa Cruz County—		Franklin County-	1	
Santa Cruz	1	Browning Township		
Shasta County	9	Zeigler		
Shasta County				
Total	17	Jasper County— Rose Hill		
I Oldi	1.			
C111- (Y 1000)		Johnson County-	1	
Florida (January, 1920):		Cypress		
Alachua County	4	Montgomery County—		
Bay County	5	Witt		
Bradford County	2	McLean County-		
Broward County	2	Colfax		
Citrus County	1	Perry County—		
Columbia County	1	South West Precinct	1	
Dade County	1	Randolph County-	1	
De Soto County	2	Red Bud		
Duval County	4	Saline County-		
Jacksonville	9	Carrier Mills	1	
Escambia County	1	St. Clair County-		
Pensacola	7	Stite: Township		
Gadsden County	2	Union County-		
Hamilton County	ī			
Hillsboro County	2	Alto Pass		
Hillsboro County	10		14	
Tampa		Wabash County-		
Holmes County	5	Keensburg		
Jackson County	9	White County-		
Jefferson County	5	Morris City		
Lafayette County	2 4		-	
Lake County	4	Total	69	
Leon County	7		******	
Levy County	3	Louisiana (January, 1920):		
Madison County	2	Acadia Parish	1	
Marion County	3	Calcasieu Parish		
Monroe County	- 1	Caldwell Parish		
Key West	1	De Soto Parish		
Okaloosa County	1	Grant Parish		
Okeechobee County	8	Iberia Parish		
Orange County	2	Iberville Parish		
Osceola County	1	La Salle Parish		
Pasco County	2	Orleans Parish		
Pinellas County	1	Ouachita Parish		
Polk County	1	Rapides Parish	1	
Putnam County	i	St. Martin Parish		
St. Johns County	î	St. Tammany Parish	1	
St. Lucie County	î	Tangipahoa Parish		
	i	Tangipanoa ransu		
Seminole County		70-4-1		
Sumter County	2	Total	58	
Taylor County			-	
Volusia County	1	Maryland (January, 1920):		
Wakulla County	1	Charles County—		
-		White Plains	. 1	
Total	116			
=		New Mexico (January, 1920):		
		Santa Fe County	1	
llinois (December, 1919):		Valencia County	2	
Bond County-	1			
Panama	2	Total	3	

MALARIA-Continued.

City Reports for Week Ended Feb. 7, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La. Anniston, Ala. Birmingham, Ala. Charleston, S. C.	17 1 4	1	Dallas, Tex	4 2	

MEASLES.

See Telegraphic weekly reports from States, page 464; Monthly summaries by States, page 469; and Weekly reports from cities, page 494.

PELLAGRA.

State Reports for December, 1919, and January, 1920.

Place.	New cases reported.	Place.	New cases reported.
California (December, 1919): Los Angeles County— Los Angeles. Florida (January, 1920): Dade County— Miami. Gadsden County Osceola County Total.	2 1 2 1 4	Louisiana (January, 1920): Caddo Parish East Feliciana Parish Jackson Parish Vernon Parish Total	

City Reports for Week Ended Feb. 7, 1920.

Place.	Cases,	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga. Birmingham, Ala. Chattanoega, Tenn Columbus, Ga Corpus Christi, Tex.	1	2 1 1	Fort Worth, Tex		

PLAGUE (RODENT).

New Orleans, La.

The table below gives a record of rodent cases of plague at New Orleans, La., from February 14 to 19, and is a continuation of the table printed on page 414 of the Public Health Reports dated Feb. ruary 20, 1920.

No case of human plague in New Orleans has been confirmed since December 30, 1919.

Date confirmed.	Mus Alex- andrinus and mus rattus.	Mus mus- culus.	Mus Nor- vegicus.	Total rodents plague infected.
1920.				
Feb. 14 Feb. 15	1		2	
Feb. 16 Feb. 17	9			
Feb. 18 Feb. 19	1	*********		

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Feb. 7, 1920.

Place.	Cases.	Deaths.	aths. Place.		Deatl	
Akron, Ohio	82		East St. Louis, Ill	10		
lameda, Calif		1	Elgin, III.	4	1	
lexandria. Va	8	6	Elizabeth, N. J.	19		
dexandria, Va dliance, Ohio dpena, Mich	1		Elkhart, Ind	8	1	
Inena Mich	i		Elmira, N. Y.	22	1	
lton, Ill	8	5	El Page They	44		
machury Mace			El Paso, Tex			
mesbury, Massnaconda, Mont		3	Englewood, N. J.	4	1	
na Ankan Minh	17		Evanston, III.	4		
nn Arbor, Mich	17	15	Everett, Mass	2	1	
nniston, Ala	3		Fall River, Mass	9		
nsonia, Conn	2	1 4	Findlay, Ohio	11	1	
rlington, Masssbury Park, N. J	2	2	Flint, Mich	84	1	
sbury Park, N. J	3	1	Fort Worth, Tex	28		
shland, Ky	18	*******	Framingham, Mass	3		
shtabula, Ohio	1		Fremont, Nebr			
tlanta, Ga		16	Fremont, Ohio	2		
tlantie City, N. J	12	6	Galesburg, III	7	1	
ttleboro, Mass	2	1.	Galesburg, III	i		
uburn, Me	1		Gardner, Mass.			
aburn, N. Y	4	8	Gary Ind			
altimore, Md	304	78	Geneva N V	10		
angor, Me	2		Geneva, N. Y. Glens Falls, N. Y. Gloucester, N. J. Grand Rapids, Mich.	10	i	
arberton, Ohio	6	3	Cloucoster N 1			
attle Creek, Mich	14	3	Crand Davids Wish	6		
avonne, N. J.	16		Caspita City, I	63		
ayonne, N. J. eatrice, Nebr		2	Granite City, III			
eaumont, Tex		3	Great Falls, Ment	2		
edford, Ind		1	Greeley, Colo			
elleville, N. J.	5		Greenfield, Mass	2		
onton Hurbor Mich	8	3	Greensboro, N. C			
orkolor Culif	6		Greenwich, Conn	10		
enton Harbor, Micherkeley, Califeverly, Mass	1	********	Hackensack, N. J.	15		
everiv, Mass			Hammond, Ind	2		
iddeford, Me	35	6	Harrison, N. J.	7		
illings, Mont	1	1	Hartferd, Conn	8		
irmingham, Ala		11	Haverhill, Mass	10		
bomfield, N. J	16		Hibbing, Minn	18		
leomington, Ill		7	Highland Park, Mich	38		
oston, Mass	136	92	Hoboken, N. J.			
ridgeport, Conn		14		42		
ristol, Conn	7	4	Helland, Mich	9		
rockton, Mass	7	1	Holyoke, Mass			
rookline, Massuffalo, N. Y	2	1	Hot Springs, Ark	4		
uffalo, N. Y	113	33	Huntington, Ind	1		
urlingten, Iova		8	Independence, Mo	30.		
urlington, Vt		2	Ironton, Ohio	1		
atte. Mont	11	5	Ironwood, Mich	3		
dillae, Mich	4		Irvington, N. J.	7 1	*****	
iro, Ili	15	3	Ishpeming, Mich	1		
mbridge, Mass	5	17	Ithaca, N. Y	17		
nton, Ill		2	Jacksonville, III	2		
		9	Jamestown N V	71		
nten, Ohiontralia, III	1	9	Jamestown, N. Y	**		
anuto Fone			Jersey City, N. J.	72		
anute, Kans		1	Jorlin Mo	5	******	
arlesten, S. C	22	1	Joplin, Mo.			
arleston, W. Va	10	8	Kalamazoo, Mich	37		
attanooga, Tenn		6	Kankakee, III	3		
elsea, Mass	4	4	Kansas City. Kans	45	*****	
icago, III	2,043	445	Kansas City, Mo	196		
ncinnati Ohio		19	Kansas City, Mo Kearny, N. J. Kenne, N. H. Kewance, HJ.	13		
eveland, Ohio	155	79	Kenne, N. H.	3 !		
noes, N. I	7	3	Kewanee, III	150		
lumbia, S. C	8		Kokomo, Ind. Lackawanna, N. Y La Fayette, Ind.			
lumbus, Ga	6	3	Lackawanna, N. Y	10		
lumbus, Ohio		25	La Fayette, Ind			
neord, N. H.		1	Lancaster, Ohio	1		
rous Christi, Tex	2	i	Lawrence, Kans	2		
rpus Christi, Texuncil Bluffs, Iowa	-	2	Leavenworth, Kans	3		
vington, Ky	6	3	Leominster, Mass			
ansten, R. I.	3	2	Lexington, Ky	2		
mborland Md	40.00	2	Lima, Ohio.			
mberland, Md	32	95	Lincoln, Nebr.	7		
llas, Tex	56	35		8		
nvers, Mass.	3		Lockport, N. Y	8		
nville, Va	7	5	Logansport, Ind			
yton, Ohio		26	Long Beach, Calif	6	******	
catur, III	20	18	Lorain, Ohio	3		
nver, Colo		85	Los Angeles, Calif	134		
troit, Michduth, Minn	559	100	Louisville, Ky	34		
duth, Minn	2	3	Lowell, Mass	11 †		
rham, N. C	1	2	Ludington, Mich	5 1		
		8	Lynchburg, Va	4 1		

PNEUMONIA (ALL FORMS)—Continued.

Place.	Cases,	Deaths.	Place.	Cases,	Death
Iacon, Ga	1	1	Pueblo, Colo		
lalden, Mass		9	Quincy, Ill.	10	
lanchester, Conn	8	2	Quincy, Mass	2	
lalderi, Mass. Lanchester, Conn. Lanchester, N. H. Larion, Ind. Larion, Ohio. Lartinsburg, W. V. Lason City, Iowa- Lattoon, Ill. Ledford, Mass. Lerlose, Mass. Lemphis, Tenn. Leriden, Conn. Lethuen, Mass.	4	4	Quincy, III. Quincy, Mass. Rahway, N. J. Redlands, Calif.		1
farion, Ind		1	Redlands, Calif	1	11
larion, Ohio	1		Reno, Nev	8	
lartinsburg, W. Va	3		Richmond, Ind	22	
lason City, Iowa	2	5	Richmond, Va	6	
Inttoon, Ill	ĩ	5	Rochester N V	80	
folroso Mass	2	i	Rockford, Ill	37	
Iomphis Tonn	-	14	Rock Island, Ill.	26	
leriden Conn	2	1 0	Rocky Mount, N. C		
lethuen, Mass	3	3	Rock Island, Ill	3	
iddletown, N. Y	4	5	Rutland, Vt.	2	
liddletown, Ohio		5	Sacramento, Calif	14	
lilwaukee, Wis		154	St Cloud Minn	8	
inneapolis, Minn		37	St. Joseph, Mo	39	
ishawaka, Ind		3	St. Paul, Minn	2	
issoula, Mont		2	Salem, Mass	4	
eriden, Connectuen, Mass. iddletown, N. Y. iddletown, Ohio iliwatkee, Wis inneapolis, Minn. ishawaka, Ind issoula, Mont. obile, Ala.		4	Salem, Oreg Salt Lake City, Utah	1	
onigomery, Ala		3	San Bornardina Calif	1	
organtown, W. Va	3		San Diago Calif	16	
oonle, Ala. organtown, W. Va. orristown, N. J. oundsville, W. Va. ount Vernon, N. Y.	8	10	Sanducky Ohio	2	
ount Vornon N V	39	21	Sanford Me	1	
uscatine Iowa	- 39	7	San Bernardino, Calif. San Diego, Calif. Sandusky, Ohio Sanford, Me. San Francisco, Calif. Sante Barbary, Calif.	20	
ishna N. H.	17	2		1	
shville, Tenn	2	6	Santa Cruz, Calif		
uscatine, Iowa shua, N. H. ashville, Tenn ewark, N. J. ew Bedford, Mass.	222	46	Santa Cruz, Calif Saratoga Springs, N. Y Sault Ste. Marie, Mich	11	
w Bedford, Mass	8	15	Sault Ste. Marie, Mich	7	
	25	3	Savannah, Ga		
w Brunswick, N. J	14		Savannah, Ga Schenectady, N. Y Sioux Falls, S. Dak Somerville, Mass	- 5	
wburyport, Mass	3	3	Sioux Falls, S. Dak	4	
w Castle, Ind	50	8	Somerville, Mass	4	
w Haven, Conn		9	South Bend, Ind		
w London, Conn	19	2	Spartanburg, S. C	- 8	
w London, Conn	20	32	Springfield, Mass	15	
w Philadelphia Obio 1	2		Springfield, Mo		
ewport, R. I. swion, Mass. ew York, N. Y. agara Falls, N. Y.	4	4	South Bend, Ind Spartanburg, S. C Springfield, Mass Springfield, Mo. Springfield, Ohio		
ewton, Mass	7	4	Stamford, Conn	0	******
w York, N. Y	4, 535	1,023	Staunton, Va		
agara Falls, N. 1	17	6	Steubenville, Ohio	3	******
HULBS A Grand Contract Contrac	35	20	Superior Wie		
orth Adams, Mass	1 2	********	Superior, Wis	142	
orth Little Rock, Ark orth Tonawanda, N. Y	20		Taunton Mass	2	
rwalk, Conn		8	Taunton, Mass	1	
rwich, Conn	2 5	3	Tiffin, Ohio	6	
rwood, Ohio	7	17	Tiffin, Ohio		
kland, Calif	10	17	Topeka, Kans	18	
k Park III	9	10	Traverse City, Mich	1	
lahoma City, Okla	8	4	Topeka, Kans Traverse City, Mich Trenton, N. J. Troy, N. Y.	34	
an, N. Y	3	1	Troy, N. Y	36	
mana, Neur		32	Tueson, Ariz		
ange, Conn		1	Vallejo, Calif		
ange, N. J	22	6	Tueson, Ariz. Vallejo, Calif. Waco, Tex. Wakefield, Mass. Waltham, Mass. Washington, D. C. Waterbury, Corp.	1	
ducah, Ky	1		Waltham Mass	3 2	
rsons, Kanssadena, Calif	3 9	1 2	Washington D C	- 1	1
ssale N I	45	6	Waterbury Conn	48	,
erson, N. J.	109	0	Watertown Mass	2	
ssale, N. J. lerson, N. J. wtucket, R. I. skskill, N. Y	103	2	Waterbury, Conn	19	
kskill, N. Y		3	Wausau, Wis. West Hoboken, N. J. West New York, N. J. West Orange, N. J. Wheeling, W. Va. White Plains, N. Y. Wichita Kans	9	
oria, Ill	32	18	West Hoboken, N. J.	15	
th Amboy, N. J	9	7	West New York, N. J		
oria, IIIth Amboy, N. Jersburg, Va	5	2	West Orange, N. J	4	
iladelphia, Pa	373	182	Wheeling, W. Va	4	
lladelphia, Pallipsburg, N. J		2	White Plains, N. Y	22	
ua, Unio	21	4		7	
tsfield, Mass	9	4	Wilmington, Del		
infield, N. J. mouth, Mass.	*******	2	Wilmington, N. C	4	
mouth, Mass	*******	2 2 26	Wilmington, N. C. Winchester, Mass. Winona, Minn. Winston-Salem, N. C.	1	
ntiac, Micht Chester, N. Y	76	26	Winona, Minn	1	
rt Chester, N. Y	5	3 1	Winston-Salem, N. C	65	
rtland, Me	21	8	Winthrop, Mass	4	
dand, Oreg	·····i	17	Woburn, Mass		
tsmooth, N. H	10	5	Workers W. W.	10	
rtland, Me. rtland, Oreg. rtsmouth, N. H. rtsmouth, Va. ughkeepsie, N. Y.	18	5	Winthrop, Mass Woburn, Mass. Worcester, Mass Yonkers, N. Y Zanesville, Ohio.	49	
ighkeepsie, N. 1	17	16 26	zanesvine, Onio	4	

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for December, 1919, and January, 1920.

Place.	New cases reported.	Place.	New cases reported.
California (December, 1949): Los Angeles County: Los Angeles Florida (January, 1929): Putnam County Blinois (December, 1919): Cook County— Chicago. Greene County— White Hall Township. Carroiton. Kankakee Township. Lake County— Ela Township. McHenry County— Marengo. Rock Island County— East Moline. St. Clair County— Mascoutah. Mc Donough County— Mound Township. Total. Louisiana (January, 1920): Winn Parish.	1	Maryland (January, 1920): Baltimore Michigan (January, 1920): Jackson County. Menominee County. Wayne County. Total. Minnesota (December, 1919): Stearns County. St. Cloud. Yellow Medicine County. Hazel Run Township. Total New Mexico (January, 1920): Dona Ana County. Rhode Island (January, 1920): Providence County. Providence County. West Virginia (January, 1920): Putnam County.	3 3 3 1 1 1 2 2 1 1 1 1

Baltimore, Md., Bloomington, Ill., and Los Angeles, Calif.

During the week ended February 7, 1920, two cases and one death from poliomyelitis were reported at Baltimore, Md.; one case was reported at Bloomington, Ill.; and one at Los Angeles, Calif.

RABIES IN MAN.

Colorado Report for December, 1919.

During December, 1919, one case of rabies in man was reported in Colorado.

SCARLET FEVER.

See Telegraphic weekly reports from States, page 464; Monthly summaries by States, page 469; and Weekly reports from cities, page 494.

SMALLPOX.

State Reports for December, 1919, and January, 1920-Vaccination Histories.

Place.			Vaccination history of cases.				
	New cases reported.		Vaccinated within 7 years preceding attack.	Last vac- cinated more than 7 years preceding attack.	vaccinated	History no obtained or uncertain.	
California (December, 1919):							
Alameda County—		1					
Alameda City	14				9	1	
OaklandButte County	ī				1	,	
Chico	4			2	2		
Contra Costa County—		1		-	1		
Concord	3				2		
Martinez	1				1		
Pittsburg	19				17		
Walnut Creek	4					2	
Del Norte County	1						
Fresno County	1				9		
Humboldt County				2	8		
Arcala	2				2		
Blue Lake	1						
Eureka	2				1	1	
Imperial County-		1	1		1		
Holtville	3	********		*********	3		
Kern County Bakersfield	2		1		1	**********	
Kings County—	1	********	**********	**********		*********	
Hanford	1				. 1		
Los Angeles County	11						
El Segunda	1						
Long Beach	18	1			18		
Los Angeles	24			2	22		
Pasadena	3				3		
Pomona	1				1	**********	
South Pasadena	i				i	*********	
Venice Whittier	9				4	5	
Madera County	1			1			
Mendocino County	1			1			
Willits	1		1				
Merced County— Merced	1				1		
Monterey County— Monterey	1	1			1		
Napa County	16				12	4	
Napa	63	1	4	1	42	16	
Orange County	1				1		
Brea	1					1	
Orange	1				1		
Riverside County	13				6		
Blythe	15			9	10	3	
Sacramento County—				-	10		
Sacramento	6				5	1	
San Bernardino County	2				1	1	
Chino	1				1		
Rialto	1				1		
San Bernardino	2				2		
San Diego County—					1		
Oceanside San Diego	1 2		**********		1	1	
San Francisco	13				12	î	
San Joaquin County	11				5	6	
Manteca	7				3	4	
Stockton	4			******	3	1	
San Luis Obispo County	1		*********	1			
Santa Clara County	1		**********		1		
San Jose	1	********		2	ī	**********	
Sonoma County-				1	2		
Sonoma County—	3				- 1		
Sonoma County— Healdsburg	3 2				2		
Sonoma County— Healdsburg Stanislaus County	2				1	3	
Sonoma County— Healdsburg. Stanislaus County. Turlock. Tulare County.	2					3 1	
Sonoma County— Healdsburg. Stanislaus County. Turlock. Tulare County. Ventura County.	2 4 2 1				1	3 1 1	
Sonoma County— Healdsburg Stanislaus County Turlock Tulare County Ventura County Fillmore	2 4 2 1 5				1 1 5	3 1 1	
Sonoma County— Healdsburg. Stanislaus County. Turlock. Tulare County. Ventura County.	2 4 2 1	3	1 7	16	1	68	

State Reports for December, 1919, and January, 1920-Vaccination Histories-Con.

Place.				accination h	nistory of cas	es.
	New cases reported.	Deaths.	Vaccinated within 7 years preceding attack.	Last vac- cinated more than 7 years preceding attack.	Never suc- cessfully vaccinated.	obtained o
Colorado (December, 1919):						
Arapahoe County	3				2	
Bent County	9				9	
Della County	180		20	*********	158	
WI Daga Country	8		1	***********	1.35	
Huerfano County	11				9	
Jefferson County	6				6	
La Plata County	17		2		14	
Las Animas County	33		2		26	
Lincoln County	7		9	******	3	
Morgan County	1					
Otero County	1				1	********
Prowers County	1				1	
Pueblo County	7 4				5	
Rio Blanco County San Miguel County	6		**********		4	
Washington County	4				4	
Weld County	39		4		34	
Total	343		32		285	2
lorida (January, 1920): Duval County— Jacksonville.	1					
Escambia County	228				208	
Pensacola Hillsborough County—	2		**********	******		*
Tampa	2					
Holmes County	2				1	
Lake County	1					
Santa Rosa County	1	*******			1	
Total	238				211	2
aryland (January, 1920):			=			
Baltimore	4				4	
Cumberland	3				3	
McCool Dorchester County—	3		*******		3	
Porchester County—	1				1	
Prince Georges County-						
Cambridge	2				2	
Washington County— Hagerstown	1				1	
Total	14				14	
ichigan (January, 1920): Alger County Baraga County	2				1 [
Baraga County	1					
Barry CountyBay County	11				3	
Bay County	5 1				1	
Berrien CountyBranch County	8	********			3	
Calhoun County	7				5	
Calhoun County Charlevoix County	2				2	
Cheboygan County Clare County	2				2	
Clinton County	1				2	
Clinton County Crawford County	3 3				2	
Delta County	4	*********		1	3	
	9				1	
Eaton County			2			
Emmet County	2					9
Emmet County	27			1	3	
Eaton County	47		7	2	18	2
Emmet County	27 47 6 22		i			2

State Reports for December, 1919, and January, 1920-Vaccination Histories-Con.

Place.	New cases reported.		V	accination t	nistory of case	es.
		Deaths.	Vaccinated within 7 years preceding attack.	Last vac- cinated more than 7 years preceding attack.	Never sue- cessfully vaccinated.	obtained o
Michigan-Continued.						
Ingham County	100		1	5	16	1
Ionia County	15		. 1		11	
Iron County	2				2	
Jackson County	6				2	
Natamazoo County	9				7	1.
Kalkaska County	4					
Lake County	1				1	
Manistee County	33				10	
Menominee County	2					
Montcalm County	4				4	*********
Muskegon County	2					
Newaygo County	8 23		2	9		
Oakland County Oceana County	11		-	-	3	
Ontonagon County	1 'i				1	
Osceola County	2				1	
Otsego County	2		1		1	********
Presque Isle County	4				9	
Schoolcraft County	3				1	********
St. Joseph County	i	*******			*	
	2				2	
Washtenaw County	2				2	
Wayne County	79				5	
Total	478		17	15	130	3
linnesota (December, 1919):		E				
Becker County—					9	
Detroit	9 2				2	
Lake View Township	ĩ	**********			1	
Lake Eunice Township	1				1	
Bigstone County-						
Ortonville	1				1	
Beardsley	4		************		4	
Graceville Township	1				1	
Blue Earth County-	-					
Mankato	1				1	
Clay County— Ulen			1			
Eglon Township	1				1	
Highland Grove Township	i				î	
Parke Township	1				1	
Clearwater County						
Dudley Township	1				1	
Douglas County Alexandria	14				44	
Solem Township	1				1	
Urness Township	i				1	
La Grand Township	1				1	
			i	1	2	
Faribault County—					3	
Blue Earth	2				4	
Frost	3					
Frost	3				i	
Frost	3					
Blue Earth. Frost. Winnebago. Emerald Township. Fillmore County— York Township. Hennepin County—	3 4 1				1	
Blue Earth. Frost	3 4 1				1	
Blue Earth. Frost	3 4 1 1 1		4	5	1 1 1 55	
Blue Earth. Frost	3 4 1		4	5	1	1
Blue Earth. Frost	3 4 1 1 1 76 17		4	5	1 1 1 55	1
Blue Earth. Frost. Winnebago. Emerald Township. Fillmore County— York Township. Hennepin County— Browndale. Minneapolis. Medina Township. Hubbard County— Park Rapids.	3 4 1 1 1		4	5	1 1 1 35 17	
Blue Earth. Frost	3 4 1 1 1 76 17		4	5	1 1 1 55 17	

State Reports for December, 1919, and January, 1920-Vaccination Histories-Con.

			1	accination l	nistory of eas	es.
Place.	New cases reported.		Vaccinated within 7 years preceding attack.	Last vac- cinated more than 7 years preceding attack.	Never suc- cessfully vaccinated	History no obtained o uncertain.
Minnesota—Continued.						
Isanti County—Continued						
Cambridge Township Stanford Township Wyanett Township	1			1	1	
Wyonott Township	10	200000000			10	
Itasca County—	10				10	
Deer River	1				1	
Keewatin	1				1	
Kanabec County—				1		
Mora	3 3	********			3 3	
Arthur Township	1				1	
Comfort Township South Fork Township	î				î	
Koochiching County—				1		
Koochiching County— Rat Root Township	1		1			
Martin County—						
Truman	2				2	
Silver Lake Township	1				1	*********
Mille Lacs County— Isle Harbor Township	1				1	1
Olmsted County—						
Rochester	6			*********	6	
Pleasant Grove Township.	1				1	
SalemTownship	7				7	
Ottertail County-					1	
Fergus Falls	1				1	********
Friberg Township Maplewood Township	i	******			1	
Ramsey County-		= 0 0 0 0 0 0 0 0 0				
Ramsey County— St. Paul	29				29	
Rice County—						
Faribault	8				8	
Rock County—	1				1	1
Luverne	3	********		**********	3	*********
St. Louis County—		,				
Duluth	2				2	
Hibbing	1				1	*********
Scott County—						
Shakopee	3		*********	*********	3	*******
Stearns County— Kimball	8			1	7	
St. Cloud	28				28	
Waite Park	1				1	
Fair Haven Township	1				1	
Steele County—	- 1				5	
Owatonna	5			********	1	*********
Havana Township Todd County—	1			**********		*********
Staples	25			3	22	
Traverse County—						
Wheaton	1				1	
Is contract the contract of th	1			********	1	*********
Tara Township Wabasha County— Lake City	4				4	********
Wabasha County—					1	
Milleille	1 1		*********		i	
MillvilleZumbro Falls	21				2	
Chester Township	3		1		2	
Elgin Township	1				1	
Wadena County—					1	
Wadena Wing River Township	1		*********	******	1	
Washington County	1				1	******
Washington County— St. Paul Park	26				26	
Cottage Grove Township.	1			1		
					901	
Total	397		6	12	364	1.

State Reports for December, 1919, and January, 1920-Vaccination Histories-Con.

			v	accination h	istory of case	es.
	New cases reported.	Deaths.	Vaccinated within 7 years preceding attack.	Last vac- cinated more than 7 years preceding attack.	Never suc- cessfully vaccinated.	History not obtained or uncertain.
New Mexico (January, 1920): Bernalillo County Chaves County Dona Ana County Eddy County Grant County Lincoln County Otero County San Juan County Santa Fe County Sierra County Socorro County Torrance County Valencia County Valencia County	4 8 2 9 3 3 36 5 1 19 2 2 1			2	2 2 2 6 2 8 1 13 5 5 1 1 17 1 5 5	223
Total	102			5	64	33

State Reports for December, 1919, and January, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Arizona (January, 1920):			Illingis-Continued.		
Maricopa County	7		Gallatin County	9	
Yavapai County	2		Equality	17	
ravapar county	9		Greene County	37	
Total	10		Athensville	12	********
Total	10		Greenfield	3	
Ī		1	White Hall	4	
Delaware (January, 1920):			Roadhouse	15	
Milford	3		Tilleioni	30	
Dagsboro	4		Hillview		
Robinsville	1		Wrights township	2	
Georgetown	8		Bluffdale Township	2	
S. C.			Carrollton	2	
Total	16		Walkerville	3	
	***		Hamilton County	11	
	-	1	Crook Township	2	
llinois (December, 1919):			Broughton	39	
Adams County-			McLeansboro	1	
Clayton	1		Henderson County	4	
Quincy Soldiers' Home	2		Jackson County	8	
Calhoun County	29		Cora	2	
Belleview Precinct			Carbondale	1	
Hardin	2		Jasper County	1	
Cass County	10		Jefferson County	7	********
Christian County-			Jersey County-		
May township	3		Jerseyville	1	
Taylorville	2		Johnson County	4	
Cook County-	-		Kane County-		
Chicago	8		Aurora	3	
Cumberland County—	9		Victoria	2	
Greenip	1		Kendall County	2	
			Knex County-	-	
Dekalb County	9		Galesburg		
Kirkwood	3		Victoria Township	1	
Eagan County	31	*******	Logan County-		
Edgar County—	-				
Stratton	3		Lincoln	1	
Stratton township	4		Lawrence County	3	
Chrisman	1		Mellenry County-		
Paris	1		Spring Grove	1	
Edwards County	8		Mel ean County-		
Browns	1		Normal	2	
Franklin County	18		Macon County	1.	
Benton	10		Macoupin	11	
Eastern township	6		Carlinbelle Township.	1 !	

State Reports for December, 1919, and January, 1920-Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Death
llinois-Continued.			Louisiana—Continued.		
Madison County—			Orleans Parish Ouachita Parish	83	*******
Alton	2		Ouachita Parish	4	*******
Madison	1 2		St. James Parish	. 1	******
East Alton	1		Vermilion Parish Washington Parish	1	******
Marion County	1		washington Parish		
Mason County	4		Total	123	
Mercer County	i				
Perrytown Township. Morgan County Jacksonville	1		Nebraska (January, 1920):		
Morgan County	2		Adams County	11	
Jacksonville	2		Antelope County	39	*******
Murrayville	6		Banner County	1	
Peoria County— Peoria	5		Boone County	01	
Bartonville	9		Box Butte County Boyd County	1	
Porry County	7	**********	Buffalo County	i	*******
Perry County Fiatt County—			Cheyenne County	43	
De Lana	1		Clay County	1	
Pike County	4		Colfax County	2	
Pike County Newburg Township	2		Custer County	8	
Pearl	3		Dawes County	3	
Palaski County	10		Dawson County		
Richland County-			Denel County	4	
Olney	1		Dodge County	7	
Madiscn Township Rock Island County	2		Douglas County	64	
Rock Island County	10		Gage County	1	
Rock Island	4		Garfield County	4	
Saline County	29		Hall County	i	
Sangamon County	2	**********	Hall County	î	
Springfield	4		Hitchcock County	î	*******
New Berlin Township	1		Holt County	14	
Schuyler County	2		Howard County	9	
Scott County	8		Jefferson County	1	
Glasgow	3		Kearney County	5	
Manchester	5		Keith County	4	
St. Clair County	2		Kimban County	2	
Freeburg	2 8		Lancaster County	75	
O'Fallon	8		Loup County	3	
Union County	î		Madison County Merrick County		*******
Vermilian County Danville.	2		Morrill County	i	
Wabash County	2		Nemaha County	s	
Warren County	14		Nuckolls County	10	
Monmouth	131		Otoe County	10	
Kirkwood	15		Pawnee County	1	
Lenox Township Swan Creek	5		Perkins County	4	
Swan Creek	1		Phelps County		
	3		Platte County	1	*****
Little York	1		Richardson County	54	*******
Little York	2		Saline County Saunders County		
White County	10		Scotts Bluff County		
White County Indian Creek Town-	10		Seward County	13	
ship	13		Sheridan County	9	
Whiteside County-			Sioux County	3	
Morrison	2		Thomas County	1	
Newton Township	2		Wayne County	2	
Will County-			Webster County	2	
Joliet	2		Wheeler County	2	*******
Wheatland Township	2		York County	20	
Williamson County-			Total	538	
Marion. Winnebago County	1		Total	338	******
Rockford	2		West Virginia (January 1920)		
Nocalord		*******	West Virginia (January, 1920): Berkeley County	8	
Total	629		Boone County	1	
_	020		Braxton County	39	******
uisiana (January, 1920):			Brooke County	2	
Assumption Parish	2		Brooke County	12	
Assumption Parish	2		Clay County	3	
Beauregard Parish	1		Doddridge County	2	
Caddo Parish	12		Favette County	42	
East Carroll Parish	1		Hancock County	8	
Iberville Parish	7		Hardy County	1	******
Jefferson Parish	4		Harrison County	4	
Jefferson Davis Parish Lafayette Parish	1		Kanawha County Lewis County	10	
LOUIS VELLE FRITISH	1		Lincoln County		

State Reports for December, 1919, and January, 1920-Continued.

Place.	Cases.	Deaths.	Place.	Cases,	Deaths.
West Virginia—Continued Logan County McDowell County Marion County Marshall County Mercer County Mineral County Mingo Gounty Monroe County Preston County Raleigh County	1 37 12 2 129 5 31 5 5 5		West Virginia—Continued Ritchie County Taylor County Upshur County Wayne County Webster County Wood County Wyoming County Total	1 5 9 10 18 2 1	

City Reports for Week Ended Feb. 7, 1929.

Place.	Cases,	Deaths.	Place.	Cases,	Deaths	
Akron, Ohio	3		Logansport, Ind.	2		
Mameda, Calif	3		Long Beach, Calif	2		
Appleton, Wis	2		Los Angeles, Calif.	8	******	
Auburn, Me.	2		Louisville, Ky	1		
Baltimore, Md	ĩ		Ludington, Mich	5	*******	
Birmingham, Ala	10		Lynchiarg, Va.	1		
Bluefield, W. Va	8		Madison, Wis	3		
Boise, Idaho.	9					
Buffale, N. Y.	3		Manitowoe, Wis	1		
	4	********	Mankato, Minn	1		
anton, Ohio	- 1		Marion, Ind	1		
edar Rapids, Iowa			Marion, Ohio	3		
hicago, III	2		Marshalltown, Iowa	9		
leveland, Ohio	4		Mason City, Iowa	5		
offeyville, Kans	1		Memphis, Tenn	12		
olumbus, Ohio	2		Middletown, Ohio	1 5		
ouncil Bluffs, Iowa	3		Milwaukee, Wis	18		
Pallas, Tex	51		Minneapolis, Minn	-26		
anville, Va	1		New Orleans, La	24		
avenport, Iowa	13		Oakland, Calif	2		
ayton, Ohio	3 :		Ogden, Utah	37		
enver, Colo	56		Oklahoma City, Okla	9		
etroit, Mich	15		Omaha, Nebr	16	*******	
ubuque, Iowa	5		Paducah, Ky	17		
uluth, Minn	2		Peoria, III	4		
urham, N. C.	ĩ		Pine Bluff, Ark	4		
Paso, Tex	i		Pontiac, Mich			
int, Mich	3		Portland, Oreg.	1		
ond du Lac, Wis	5		Portsmooth, Va.	110		
ort Smith, Ark	2		Pueble Cole	1		
ort Worth, Tex			Pueblo, Colo,	3 1		
			Racine, Wis	1 1		
alesburg, Illalveston, Tex			Riverside, Calif	3 !		
arveston, Tex			Rock Island, Ill			
ary, Ind			St. Cloud, Minn	3		
rand Rapids, Mich			St. Joseph, Mo			
anite City, Ill			St. Louis, Mo			
reat Falls, Mont	5		St. Paul, Minn	15		
reen Bay, Wis			Salem, Oreg	5.1		
mmond, Ind	3		San Francisco, Calif	8		
ot Springs, Ark.	2		Santa Barbara, Calif	71		
intington, Ind	1		Sioux Falls, S. Dak	2		
tehinson, Kans	1.1		South Bend, Ind	6		
nwood, Mich	2		Spartanburg, S. C	1		
nesville, Wis			Springåeld, Ohio	1 1		
lamazoo, Mich			Steubenville, Ohio	- 1		
nnsas City, Kans	- 1		Superior, Wis			
ansas City, Mo	202 6		Trinidad, Colo	1 .		
enosha, Wis			Washington, D. C.	4		
ewanee, III	- 1		Wausau, Wis.			
noxville, Tenu	- 1		Wiehite Kons	4 .		
okomo, Ind			Wichita, Kans	9 1.		
Fayette, Ind.						
avenworth, Kans	0.1		Wilmington, N. C.	13.		
neels Nobe			Winston-Salem, N. C.		*******	
ncoln, Nebr	27		Zanesville, Ohio	1 1.		

Vaccinations on Canadian Border, 1920,

Reports from Public Health Service officers on the Canadian border show that vaccinations were performed at points of entry to the United States from February 12 to February 18, 1920, inclusive, as follows:

Vaccinations. Buffalo. 347 Detroit. 929 Niagara Falls. 207 Ogdensburg 1 59 Port Huron. 342 Sault Ste, Marie 1 53

TETANUS.

City Reports for Week Ended Feb. 7, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill New York, N. Y	2	1	Richmond, Va		1 2

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 464 and Weekly reports from cities, p. 494.

TYPHOID FEVER.

State Reports for December, 1919, and January, 1920.

Place.	New cases reported.	Place.	New cases reported.
Arizona (January, 1920):		Colorado (December, 1919):	
Mohave County	1	Denver County	3
California (December, 1919):		Prowers County	i
Alameda County – Oakland	1	Pueblo County	1
Fresno County	1	The County I in the county is a county in the county in th	-
Clovis	1	Total	7
Imperial County—		To 1 (Y	-
El Centro	1	Delaware (January, 1920): Wilmington	1
Kern County— Taft	1	Milford	
Los Angeles County	2	Middletown	
Arcadia		Dover	1
Los Angeles	12	m	-
Madera County— Madera	,	Total	4
Merced County	1	Florida (January, 1920):	
Monterey County	3	Baker County	1
King City	2	Bay County	1
Riverside County	1	Bradford County	
Banning Sacramento County—	1	Columbia County	2
Sacramento County -	2	Miami	3
San Francisco.	2	De Soto County	
San Joaquin County -		Duval County	2
Manteca	1	Jacksonville Escambia County	2
Sonoma County	2	Pensacola	
El Dorado County		Hillsboro County	
		Tampa	9
Total	38	Holmes County	1
		Jefferson County	1

¹ No report for Feb. 18.

TYPHOID FEVER-Continued.

State Reports for December, 1919, and January, 1920-Continued.

Place.	New cases reported.	Place.	New case reported.
Florida—Continued.		Ill inois—Continued.	
Madison County	2	Saline County	1
Manatee County	3	Sangamon County-	
Orange County	2	Springfield	
Pinellas County	3	Williamsville	
Polk County	2	St. Clair County	1
Volusia County	6	East St. Louis	1
		Belleville	1
Total	47	Belleville	1
		Tazewell County-	1
Illinois (December, 1919); Adams County—		Vermilion County—	
Quiney	2	Danville Potomac.	
Elco Brown County—	1	Wabash County Will County—	
Mount Sterling	1	Joliet	
Christian County	2	Joliet Township	1
Taylorville	ĩ	Williamson County—	
Clark County-		Cambria	
Marshalf	3	Winnebago County-	
West Union	1	Rockford	
Coles County	3		-
Mattoon Cook County—	1	Total	165
Chicago	21	Louisiana (January, 1920):	
Oblong	3	Allen Parish	1 3
Cumberland County	1	Beauregard Parish	,
Dewitt County	1	Caddo Parish	12
Douglas County	2	Caldwell Parish	l i
Fayette County-	- 1	De Soto Parish	2
St. Peter	1	Grant Parish	i
Wilberton	il	Iberville Parish	i
St. Elmo	2	Lafayette Parish	9
Franklin County		Lafourche Parish	1
West Frankfort	3	Natchitoches Parish Orleans Parish	1
Ziegler	11	Orleans Parish	7
Gallatin County	1	Ouachita Parish	2
Eagle Creek Township	2	Pointe Coupee Parish	1
Hamilton County-		Rapides Parish	
McLeansboro	1	Sabine Parish	1
Henry County	8	St. John Parish	1
Jackson County. Jefferson County	4	St. Martin Parish	1
Webber Township	1		
Kankakee County	5	Total	44
Waukegan	2	Marriand (Lanuary 1090)	
North Chicago	4	Maryland (January, 1920): Baltimore	15
Lawrence County	2	Baltimore County—	10
Logan County -	,	Catonsville	1
Lincoln	1	Oella Cecil County—	1
Hue Township	1	Elkton	2
Macon County	2	Charles County—	-
Decatur	ī	Waldorf	1
Madison County	î	Riverside	î
Alton	2	Bryantown, R. D	î
Wood River	2	Dorchester County—	
Marion County	3	Hurlock, R. D	1
Odin.	4	Frederick County-	
Montgomery County	2	Libertytown	1
Litchfield	3	Brunswick	1
Farmersville	2	Middletown	1
Morgan County -	_ 11	Garrett County—	
Woodson	7	Kitzmiller	1
Jacksonville	3	Kent County—	
Pine Rock Township	1	Galena, R. D.	1
Peoria County	1	Prince Georges County—	
Pike County	1	Aquasco	1
New Canton	2	Sudlersville, R. D	
Randolph County	. 1	Somerset County—	1
Kaskaskii Township	1	Domes Quarter	
Richland County	î	Westover, R. D.	i
Olacy	î	St. Marys County—	
Rock Island County	î	Jonestown	1
East Moline	î	Talbot County—	
Moline	2	Trappe, R. D.	

TYPHOID FEVER—Continued.

State Reports for December, 1919, and January, 1920.

Place.	New cases reported.	Place.	New case reported.
farwland—Continued.		Minnesota—Continued.	
faryland—Continued. Washington County—	•	Watonwan County-	1
Indian Spring	2	St. James	
Boonsboro	1		•
Boonsboro	2	Tenney	
manager, an activities		Campbell Township	\$
Total	39	Winona County-	
		Lewiston	1
fichigan (January, 1920):		Wright County-	1
Allegan County	1	Maple Lake	1
Calhoun County	3 1	angle said this time the said	-
Chippewa County	1	Total	4
Genesee County	2		
Genesee County	2	Nebraska (January, 1920):	
Gratiot County	2	Cuming County	
Hillsdale County	2 1 3	Douglas County	
Ingham County	3	Holt County	1
Iron County	1	Knox County	
Isabella County	2 1	Lancaster County	
Kent County	2		
Lapeer County	1	Total	
Lenawee County.	2 2 1 2 1		
Lenawee County	1	New Mexico (January, 1920):	
Monroe County Oakland County	1 1	Bernalillo County	
Oakland County	2 6	Chaves County	
Saginaw County	6	Colfax County	1
Saginaw CountySt. Clair County	2	De Baca County	i
St. Joseph County	1	Grant County	1
Wayne County	13	Grant County	
		Onay County	
Total	48	Quay County	
		Socorro County	
innesota (December, 1919):	1	Socorro County	
Beltrami County-		Total	15
Bemidjl	2		
Chippewa County—	- 1	Rhode Island (January, 1920):	
Montevideo	1	Newport County-	
Clay County -	- 1	Newport]
Moorhead	1	Vermont (January, 1920):	admirate a second
Oaknort Township	2	Addison County	6
Oakport Township Crow Wing County—	- 1	Bennington County	i
Deerwood.	1	Chittenden County	1
Dakota County-	- 1	Orleans County	i
Hastings	1 /	Washington County	3
Hastings. South St. Paul.	î	washington county	
Hennepin County-	- 1	Total	12
Minneapolis	1	1000	
Murray County-	- 1	West Virginia (January 1920):	
Iona	1	West Virginia (January, 1920): Barbour County	4
Norman County-	- 1	Boone County	i
Felton Township	1	Favette County	8
Olmsted County -		Fayette County	8
Rochester	1	Hancock County	3
Ottertail County -	- 1	Kanawha County	18
Deer Creek.	1	Lewis County	
Fergus Falls	î	Lewis CountyLincoln County	1
Fergus Falls	2	Lozan County	4
Deer Creek Township	4	Logan County	4 5 2 6
Pennington County	- 1	Mason County	•)
St. Hilaire	1	Mason County Mercer County	60
Polk County-		Mineral County	1
East Grand Forks	1	Mingo County	5
Pamear Countr	* 1	Mingo County	11
Ramsey County— St. Paul.	4	Monroe County	11
Renville County—		Nieholas County	1
Franklin	1	Nicholas County	*2
Franklin		Pleasants County	3
St. Louis County—	3	Pocahontas County	1
Duluth Embarrass Township	1	Putpara County	
Scott County		Putnam County	4
Scott County-	2	Raleigh County	9
New Market	2	Randolph County	3
Stearns County -		Roane County	1
St. Martin St. Martin Township	1	Summers County	21
St. Martin Township	1	Tyler County	2
Steele County— Merton Township.	- 1	Wayne County	2 1 3 1 7 2 4 3 1 21 21 3
Merton Township	1	Wirt County	1
		Wood County	3
Newport	1		135
	1	Total	

TYPHOID FEVER-Continued.

City Reports for Week Ended Feb. 7, 1920.

Place.	Cases.	Cases. Death3. Place.			Deaths.
Allentown, Fa.	1		Milwaukee, Wis	1	
Atlanta, Ga			Minneapolis, Minn	1	
Auburn, N. Y	1		Montgomery, Ala	1	
Baltimore, Md	1		Nashville, Tenn	2	
Birmingham, Ala	2	1	Newark, N. J.	1	
Boston, Mass	1		New Orleans, La	i	
Buffalo, N. Y.	3		New Philadelphia, Ohio	1	
Charleston, S. C	2		New Yerk, N. Y	3	
Coffeyville, Kan3	1		Northamr ton, Mass	1	
Dallas, Tex	2		Oakland, Calif	1	
Denver, Colo	2		Philadelphia, Pa	5	
Detroit, Mich	2		Portland, Oreg	1	
Erie, Pa	1		Richmond, Va	1	
Everett, Mass	1	1	Richmond, Va Sacramento, Calif	1	
Galveston, Tex	1		St. Louis, Mo	2	7.0
Grand Rarids, Mich	1		San Francisco, Calif	1	1.0
Hammond, Ind	4	3	Savannah, Ga	2	441
Hutchinsen, Kans	1		Springfield, Mass	1	
ndependence, Mo	1		Springfield, Mass		
Joplin, Mo	1		Waterbury, Conn		
Kokomo, Ind	2		Wilmington, Del	1	
Mattoon, Ill	1			•	

TYPHUS FEVER.

Maryland Report for January, 1920.

During January, 1920, two cases of typhus fever were reported in Maryland.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended Feb. 7, 1920.

	Popula- tion as of July 1, 1917	Total deaths	Diph	Diphtheria.		Measles.		arlet ver.	Tuber- culosis.	
by U. S Census	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, S. Dak	15,926		2							
dams, Mass	14,406	2								1
kron, Ohio	93,604	44	6		132	1	119			1
Mameda, Calif	28, 433	11	1		38		5		1	
Mexandria, La	16,232	4	3							
lexandria, Va	17,933	14								
Illentown, Pa	65, 109				1		1		2	
Iliance, Ohio	19,581				2					
Ipena, M.ch	13,365				16					
lton, 111	23,783	25	1		1		4		1	
Itoona, Pa	59,712		3						7	
mesbury, Mass	10,200	1			1					
naconda, Mont	10,631	8								****
nn Arbor, Mich	15,041	31			9					
nniston, Ala	14,326								9	
nsonia, Conn	16,954	9		1	18		1		ī	
ppleton, Wis	18,005	-	1	-	1		î	*****	9	
rlington, Mass	13,073	4			6		9	*****	-	
sbury Park, N. J	14,629	4			1		-			****
shtabula, Ohio	22,008	8		*****					1	
tlanta, Ga	193, 144	90	1		28		9		5	
llantic City, N. J	59, 515	17	2	1	71	1	4		1	
ttleboro, Mass	19,776	8	-		'i		*			
uburn, Me	16,607	1						*****		
uburn, N. Y	37, 823	24	2	*****	3	*****	3			****
astin, Tex	35,612	8	i	******	9	*****	1	*****	1	
altimore, Md	594,637	351	40	2	144	1	57	2		
angor, Me	26,958	331	40	-	144	1	1	-	26	

	Popula- tion as of July 1, 1917		1	htheri	M.	easles.		carlet ever.		uber- ilosis.
City.	(estimated by U. S. Census Bureau).	from all causes	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Barberton, Ohio	14, 187	13	-		1	1	1		1	-
Raton Roume Lo	17,544	9			1		1 1		. 1	1
Battle Creek, Mich	30, 150	6			- 13					
Beatrice Nebr	72, 204 10, 437	4	- 4		- 1				- 3	
Beaumont, Tex.	28, 851	14		1						
Battle Creek, Mich Bayonne, N. J. Beatrice, Nebr Beaumont, Tex. Beaver Fulls, Pa	13,749		1	1	1			1		
Bedford, Ind	10,613 12,797	1			- 13					
Beloit, Wis	18,547	******			1	*****				
Benton Harbor, Mich	11,099			7	1 4	1	- 11			
Berkeley, Calif	60, 427	20	1		78		. 5		1	1
Bethlehem, Pa	13,892 14,353	5								
Beverly, Mass	22.128	6			3		3 6		3	
	15,123	6			1		2	1	i	1
Birmingham, Ala	189,716	72	3	1	16		. 8	1	6	9
	19,013 27,462	2 16	****		8		3 3			
Bloomington, Ind	11.661	0	1		10		1 0		4	1
Bluefield, W. Va	16,123		1				3	1		1
Borse, IdahoBoston, Mass	35,951	7								
Braddock, Pa	767, 813 22, 069	408	47	4	278	6	54		36	31
Braddock, PaBradford, Pa	114.544	*******	1	1	3		2			
Brazil, Ind	10,472	1					1			1
Bridgeport, ConnBristol, Conn	124,724	60	12	*****	17		7		2	1
Brockton, Mass	49.152	17	2 6	1	78		4			
Brookline, Mass	33,526	13			10				2	1
Brunswick, Ga Buffalo, N. Y	10.984	4					1		1	
Sullato, N. 1	475,781 25,144	200	49	5	44		20		20	9
Burlington, Iowa	21, 802	16 11	*****	*****	1	*****	1			*****
Butler, PaButle, Mont	28,677		1			1	8			*****
Butte, Mont	44,057	22	2				2			
adıllac, Mich	10,158 15,995	1 7	1	*****	6	*****		*****		
ambridge, Mass	114.293	46	1 2	*****	7 8	2	6		5	3
anton, Ill.	13.674	14	*****							0
anton, Ohioarbondale, Pa	62,566	59	3	1	4		1			3
arlisle, Pa	10.795				*****	*****	1	*****		*****
arnegie, Paedar Rapids, lowa	11,963		1	*****			3 2		*****	
edar Rapids, lowa	38,033	7	2							
entralia, III. hambersburg, Pa	11.838 12.475	6	3			*****			1	*****
hanute, Kans	12,968	4	.0	******	15	*****				*****
harleston S C	61.041	25	3		8					3
harleston, W. Vaharlotte, N. Chattanooga, Tenn	31,060 40,759	*******	2	*****						
hattanooga, Tenn	61.575	13 25	*****		4	*****	3		1	1
helsea, Mass	48, 405	22	7			******	2	*****	4	*****
hester, Pa	41,857		3		26		1		5	
hicago, Illhicopee, Mass	29,950	1,945	117	11	197	5	326	8	249	85
incinnati, Ohio	411.248	156	8	1	165		65		18	11
eveland, Ohio	692, 259	366	31	2	220		31	3	36	22
inton, Mass	13,075	3				*****				
offevville, Kans	14,958		****		I		2		1	*****
olioes, N. Y	25.292	7	11				2		· i	
olumbia, S. C	35, 165				2					
olumbus, Gablumbus, Ohio	23, 306 220, 135	12			00				5	3
oncord, N. H.	22, 858	11	1		28		20		4	5
onnellsville, Pa	15, 876				1					
orpus Christi, Tex	10,789	6 .			- 1				2	1

Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Me	asles.		arlet ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Covington, Ky	59,623	15			42		1		3	
Cranston, R. I	26,773	. 6			3		1			
Cumberland, Md Dallas, Tex	26,686 129,738	13 109	15	1	2		3	*****	1 2	1
Danbury, Conn	129,738 22,931 10,037	8	10		9		î			
Danbury, Conn	10,037		1							*****
Davenrort, Iowa	49,618		2		1					
Dayton, Ohio	128,939	98 38			119,		5	1	6	
Denver Colo	41,483 268,439	261	16		23		27			38
Denver, Colo. Des Moines, Iowa.	104,052		4				5			
Detroit, Mich	104,052 619,648	1,147	97	13	108	4	66	5	55	48
Dover, N. H	13, 276	4								
Dubois, Pa Dubuque, Iowa	14,994 40,026	*******	1		26		8 2	*****	*****	*****
Duluth, Minn	97, 077	32			3		5	*****		*****
Dunmore, Pa	21,286						1		1	
Dunmore, Pa Durham, N. C	97,077 21,286 28,100	7	1				1		1	
East Chicago, Ind.	30,286	22								1
East Cleveland, Ohio Easton, Pa	13,864	*****	2		53				1	*****
East Orange, N. J	30, 854 43, 761	10	4		43		1			*****
East Providence, R. I	18,485		2				î		*****	
East St. Louis, Ill.	77,312	33			18	1	1		4	1
Elgin, Ill. Elizabeth, N. J.	28, 562	11	1				1			
Elizabeth, N. J	88, 830	16	3	1	64		6		1	. 1
Elmira, N. Y.	22, 273 38, 272 69, 149	17	1	1	28		3			*****
Elkhart, Ind. Elmira, N. Y El Paso, Tex. Englewood, N. J.	69, 149	45		3						6
Englewood, N. J	12,603	3			5		2	*****	*****	*****
Fille, I decessors and a second	76, 592	6	20		24		69		8	
Eureka, Calif	15, 142	20	6	1	1		5	*****	*****	*****
Everett, Mass	29,304 40,160 16,111	18	3		8				2	9
Evanston, Ill. Everett, Mass. Fairmount, W. Va. Fall River, Mass.	16, 111		3						*****	
Fall River, Mass	129,828	38	3	1	7 7		9		5	3
	1 10, 190	7	1		2	****	*****		*****	*****
Findlay, Ohio. Flint, Mich. Fond du Lac, Wis. Fort Smith, Ark	1 14, 858 57, 386	95	18	*****	******	*****	14	*****	*****	
Fond du Lac, Wis.	21,486		1				1			
Fort Smith, Ark	29,390		2		1					
FULL WOILING AUA	109, 597	62					1		1	1
Fostoria, Ohio	10,959	9			5		1		1	
Framingham, MassFreeport, Ill. Fremont, Nebr	14, 149 19, 844	5 27			2		1			
Fremont, Nebr.	10,080	4								
Fremont Onlo	11,034	9			2		2			
Galesbury, III. Galveston, Tex	24,629	16					1		*****	
Cordner Wass	42,650	17					1	******		*****
Gary. Ind	17, 534 53, 000 13, 915 17, 160	27		*****	2		1			
Gary, Ind	13, 915	5					î			
Glens Falls, N. Y	17, 160	7								
Grand Rapids, Mich	132, 301	68	2		23		4		12	
GraniteCity, Ill	15, 890 1 13, 948	8	5	2	20	1	9		3	2
Great Falls, Mont	11, 942	3								
	11,942 12,251	4			1					
Greensboro, N. C	20, 171	13								1
Greenwich Copp	15,881	6	2		6		2		1	
Greenheld, Mass. Greensboro, N. C. Greensburgh, Pa Greenwich, Conn. Hackensack, N. J. Hammond, Ind. Harrisburgh, Pa	19,594	6	1	*****	23		2		1	1
Hammond, Ind	17, 412 27, 016	15	4		9		7			
Harrrisburg, Pa	73 276		1		1		1	*****		****
Harrison, N. J	17,345				1		.1			*****
Harrrisburg, Pa	112, 831	85	7 7		1		14		2 3	3 2
Hazelton, Pa	17, 345 112, 831 49, 180 28, 981	21	2				1		9	-
Hazelton, Pa Hibbing, Minn. Highland Park, Mich	17, 550		3		1					
Madeland Donle Mich	33, 859	21	3		-		41	1	11	1

Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Med	asles.	Sear	let er.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
loboken, N. J.	78, 324	47	3	1	18	2	2		3	
folland, Mich	12, 459 66, 503 17, 690 12, 808	1								
lolyoke, Mass	66, 503	21			19		12		5	1
of Springs, Arkudson, N. Y	10,000	7 7								
untington, Ind	10, 182	8		*****		*****	4	*****		1
untington, W. Va	47,686	7	******							1
utchinson, Kans.	21,461				2					
dependence, Mo	11, 964 14, 079	27								
onton Ohio	14,079	11								
onwood, Michvington, N. Jhpeming, Michhaca, N. Y	15,095	1								
vington, N. J.	16,710		2		4					
hpeming, Mich	1 12, 448	4 7			2				2	***
naca, N. Y	16, 017 15, 506	21			2			*****	-	
cksonville, III	37, 431	21	1		3		1		1	
nesville, Wis.	14, 411	14			5		3	1		
offerson City, Mo	13,712	10								
offerson City, Mo. orsey City, N. J. ohnstown, Pa.	312, 557		21		57		3		11	
hnstown, Pa	70,473		6		16					
mlin Mo	33,400	5	1		1					
alamazoo, Michankakee, Ill	50,408	29		*****			9	1	8	
ankakee, Ill	14,270	6			40		1 5			****
ansas City, Kans	14,270 102,096 305,816	270	6 8	1	46 85	A	16	2	9	
ansas City, Mo	24, 325	370	2		13		2		3	,
ansas City', Mo earny, N. J eene, N. H.	10,725	7	-		10		-			
enosha, Wis.	32,833		1		2		1			
ewanee, Ill	13,607	22								
noxville, Tenn	59,112		4	1	74	1	3		1	
okomo, Indackawanna, N. Y	21,929 16,219	12					7			
ackawanna, N. Y	16,219	6			1		1		2	
a Crosse, Wis	31,823				1		3			
a Fayette, Ind	21,481 16,686	10	1		1		3			
ancaster, Ohio	51,437	5	9		13		9		3	
aurel, Miss	19 313		il	1	10		-			
awrence Kans	12,313 13,477	4							1	
awrence, Kans	102,923	37	4	1	4		4	2	6	
eavenworth, Kans	102,923 19,363	9							1	
exington, Ky	21,365	5			1				2	
exington, Ky	41,997	22	2		13		1		4	
ma, Ohio	37,145	32			15		3	1		
ncoln, Nebr pekport, N. Y ogansport, Ind.	46,957	39	1		2		3	1		
ecapement Ind	20,028 $21,338$	6 9			8	1	6			****
ong Beach, Calif	29, 163	16	1	1	0		7		1	
rain, Ohio	38, 266		i				2	1		
s Angeles, Calif	535, 485	210	51	1	34]	19		60	2
misville, Ky	240,808	118	16		6		4		17	
well, Mass	114,366 10,566	39	6		3		5		4	
dington, Mich.	10,566	14			2		2			****
nehburg, Va	33, 497	8	6				23		2	****
nn, Mass	104, 534 48, 299	26	0		4		1		ī	*****
Keesport, Pa	20, 795				i		2			
Kees Rocks, Pa.	46, 039	17			4		2		1	
dison, Wis	31.315				19					
dison, Wis. hanoy City, Pa	31,315 17,709 32,243		2		14					
ilden, Mass	32,243	32	2		3		4		1	
nchester, Conn	15,859	4					2 .		5	****
anchester, N. H.	79,607	16	4	1	2		1 7		3	
mkoto Minn	13,931	6			4		1			*****
nnkato, Minn	1 10, 365	0			4		1			
arion, Ind	1 14,610 19,923	15	1		25	1	i			
	and the state	210			20	-	- 1			
rion, Ohio	24, 129		1							

Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria	Me	asles.		arlet ver.		ber- osis.
City.	by U. S.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Meadville, Pa	13,968		2				1			
Medford, Mass	26,681	16			3 5		8			
Meirose, Mass Memphis, Tenn Meriden, Conn	17,724 151,877	6 76	7		7		8		7	
Meriden Conn		6	4		4	1	6		3	
Meriaen, Coni Methuen, Mass. Middletown, N. Y Middletown, Ohio Milwaukee, Wis. Minneapolis, Minn Mishawaka, Ind. Missayia, Mont	14,320	6	1				1			
Middletown, N. Y	15,820		. 1				9			
Middletown, Ohio	15,820 16,384 445,008	8	1	5	2				07	
Milwaukee, Wis	445,008	300 294	25 15	1	31		17	1 3	27 13	1
Michawaka Ind	373,448 17,083		10		1		5	0	1	
Missoula, Mont Mobile, Ala	19, 075 59, 201 23, 070	7		1						1
Mobile, Ala	59, 201	35								
Monessen, Pa	23,070		4		26		6			
Iontgomery, Ala	44,039	25							2	
dorgantown, W. Va	14,444	.4			2		1		2	
Mornstown, N. J	11 513	14 10			9		1	*****		****
Monessen, Pa Montgomery, Ala. Morgantown, W. Va. Morristown, N. J. Moundswille, W. Va. Mount Carmel, Pa. Mount Vernon, Ill.	13, 410 11, 513 20, 709	10					4			
Mount Vernon, Ill	10,043	27			37		1		····i	
Muncie, Ind	25, 653		1		23		7			
Nascatine, Iowa Nashua, N. H. Nashville, Tenn, Newark, N. J	17, 713 27, 541 118, 136	10								
Vashua, N. H	27,541	. 7					4			****
ashville, Tenn	118, 136	41	3	1 5	201		18		36	
lew Bedford, Mass	418,789 121,622	240 46	25	3	201 37		9		8	
lew Britain Conn	55, 385	7	i		3		8			
lew Brunswick, N. J	55, 385 25, 855		i				1		1	
ewburyport, Mass	15, 291	8								
ew Castle, Ind	14, 144	16								
ew Castle, Pa	41, 915 152, 275 21, 199				19		6			
New Haven, Conn	152, 275	66	7		52	3	12		1	
Low Orloans La		147	7	1	2		7	1	36	1
ew Philadelphia, Ohio	10, 133	7.41			10					
ewport, R. I	30,585	10	2				1			
ewton, Mass	44, 345	11	1		4		4		1	
ew York, N. Y	5,737,492	3,502	339	37	2,035	40	145	4	113	17
lagara Falls, N. Y	10, 133 30, 585 44, 345 5, 737, 492 38, 466	20	3 5	1	93	1	1		6	
orristown Pa	91, 148 31, 969 1 22, 019 20, 006		3	1	1	*****				
New Bedford, Mass. New Britain, Conn. New Brunswick, N. J. Newburyport, Mass. New Castle, Ind. New Castle, Ind. New Castle, Pa. New Haven, Conn. New Orleans, La. New Philadelphia, Ohio. New Orleans, La. New Philadelphia, Ohio. New Orleans, La. New Philadelphia, Ohio. New Philadelphia, Ohio. New Philadelphia, Ohio. New Philadelphia, Ohio. New York, N. Y. New York, N. Y. Nagara Falls, N. Y. Norfolk, Va. Norristown, Pa. North Adams, Mass. Northampton, Mass. Northampton, Mass. Northampton, Mass.	1 22, 019		2							
orthampton, Mass	20,006	13			5		2			
orth Attleboro, Mass orth Braddock, Pa	11.248	2								
orth Braddock, Pa	15,684				20					
orth Tonowanda N V	15,515 14,060	3			1		9	*****	1	
orwalk Conn	27, 332	15			8		9	*****	*****	****
orwich, Conn	21 923	4	3		5					
orwood, Ohio	23, 269 206, 405 27, 816 16, 845	8	1				6			
akland, Calif	206, 405	110	1	1	96	2	14		8	
ak Park, Ill	27,816	15	2		2		4		1	
gdensburg, N. Y	16,845	17	· · · · i	*****	*****		····i	*****		
il City Pa	32, 343	17			*****			*****	7	
klahoma City, Okla	20, 162 97, 588 16, 927 177, 777	22			16		1		7	
lean, N. Y	16,927	10	3		3					
maha, Nebr	177,777	86	2		17		25	2		
range, Conn	14.3353 1	7		*****	4		1			
orth Braddock, Pa. orth Ittle Rock, Ark orth Tonowanda, N. Y orwalk, Conn. orwich, Conn. orwood, Ohio. ak Park, Ill gdensburg, N. Y gden, Utah. il City, Pa. klahoma City, Okla. lean, N. Y maha, Nebr range, N. J shkosh, Wis dducah, Wis shush	33, 636 36, 549 25, 178	18			3 28	*****	2		1	
aducah Ky	25 178		*****		3				2	*****
arkersburg, W. Va	21,059	8	1							
arsons, Kans	15, 952		1 1 2		2				1	
asadena, Calif	49,620 74,478	10	1		3		5		1	
assaic, N. J.	74,478	31			1				1	
sikish, vis aducah, Ky arkersburg, W. Va, arsons, Kans asadena, Calif. assae, N. J. aterson, N. J.	140,512	26	10		18		2		4	
asterson, N. J. awtucket, R. I. eekskill, N. Y. eoria, Ill. erth Amboy, N. J.	60,666 19,034 72,184 42,646	15 5						1		
Committee & secondary	19,004	9								
eoria, III	72 IN4 I	14	5	28 1			7 1			

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Me	asles.		arlet ver.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Petersburg, Va	25, 817	7			1				3	
Phitadelphia Pa	25, 817 1, 735, 514 15, 879 17, 777	747 5	87	16	494	6	76	6	89	60
Phillipsburg, N. J Pine Bluff, Ark	17, 777		1						1	
Pigua Unio	14, 275	8			2				1	
	14, 275 586, 196		19		243		25		18	
Pittsburgh, Pa. Pittsfield, Mass. Pittston, Pa. Plainfield, N. J. Plattsburg, N. Y. Plymouth, Mass. Plymouth, Mass.	39,678 18,975 24,330	28			9		1 3			111
Plainfold N I	24 330	15			1 3					*****
Plattsburg, N. Y.	13, 111	5								5
Plymouth, Mass	14,001 19,439	3								
Plymouth, Pa	19, 439						1		1	
Pontiac, Mich. Port Chester, N. Y.	18,006	42 10	2	*****	6		*****			*****
Port Chester, N. 1	16,727	35	4		6		3		1	******
Portland Oreg	64,720 308,399	100			5		5		16	
Portsmouth, N. H.	11,730				7					
Portsmouth, N. HPortsmouth, VaPottstown, Pa	11,730 40,693	26					1		1	2
Pottstown, Pa	16,987		1				10			
Pottsville, Pa Poughkeepsie, N. Y Providence, R. I	22,717	24	1		1		2		6	* 4 * * * *
Providence P I	30,786	100	36	2	22		8		1	
Pueblo Colo	259, 895 56, 084 36, 832	15	1	-					*****	2
Quincy, III.	36, 832	16	î				7			i
Quincy, Mass	39, 022	14	8				4			
Racine, Wis	47, 465		1		6		9			
Rahway, N. J.	10,361	4								
Raleigh, N. G	47, 465 10, 361 20, 274 111, 607	11	6		2					*****
Providence, K. Pueblo, Colo. Quincy, III. Quincy, Mass Racine, Wis. Rahway, N. J. Rakway, N. J. Raeding, Pa. Reddands, Calif.	14,573	3			1				2	*****
Rena Nev	15.514	4			4					
Richmond, Ind Richmond, Va Riverside, Calif	25, 080 158, 702 20, 496	18	2	1	42				2	
Richmond, Va	158, 702	108	1	2	91		5		10	6
Riverside, Calif	20,496	9	3		1	4			1	*****
Rochester, N. Y	264,714	121 49	25	4	175	4	1		5	-
Rockford, Ill	56,739 29,452	14	3	1	2			1		
Rocky Mount, N. C.	12,673	6							1	1
Rocky Mount, N. C	15, 038	8			3				*****	
Sacramento, Calif	68, 984	32	2		35	1	1		1	4
t. Joseph, Mo	86, 498	54	2 66		737	6	27	2	39	.4
st. Joseph, Mo. st. Louis, Mo. st. Paul, Minn	768, 630	665 156	9	1	20	0	6	1	11	14
lalem Mass	252, 465 49, 346 21, 274	25	2		20		4	1		
Salem, Mass	21, 274	4							1	
Palt Lake City, Utah,	121,623	121	1	1	1		8			
an Fernardino, Calif	17,616 56,412	6								1
San Diego, Calif	36, 412	38	1		3 2		1		1	1
satem, Oreg. alt Lake City, Utah, an Eernardino, Calif. an Diego, Calif. andusky, Ohio, anford, Me.	20, 226 11, 217	ó			2		1		. 1	*****
an Francisco, Calif.	471, 023	231	31		325	1	15		32	
lanta Barbara Calif	15,360	3			2					
anta Cruz, Calif. Saratoga Springs, N. Y Bault Ste. Marie, Mich	15, 150	1			4					
Saratoga Springs, N. Y	13, 839	3	1		4					
Sault Ste. Marie, Mich	14, 130	45	2		3		2		2	
avannah, Ga chenectady, N. Y cranton, Pa	69, 250 103, 774	34	2		14		2		3	-
cranton. Pa.	149, 541		6		31		2 7			
hamokin, Pa	149, 541 21, 274 19, 156		1		6		2			*****
haron, Pa	19, 156				1					*****
henandoah, Pa	29, 753				1					
ioux City, Iowa	58, 568	12					5	1		
Sioux City, Iowa	16, 887 88, 618	46	1		5		5	4	4	2
outh Bend, Ind.	70,967	43	i		3		7			2
nartanburg S C .	21,985	11	2		1					
pringfield, Mass	108,668	43	4		18		14		3	3
pringfield, Mass. pringfield, Mo. pringfield, Ohio. tamford, Conn	41, 169 52, 296	20								1
pringheld, Onio	52, 296 31, 810	49			5 9					

City.		July 1, 1917 deaths		Diphtheria.		Measles,		Searlet fever.		ber- osis.
	by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Desths.
Indian Pa	15 750									-
teelton, Pa teubenville, Ohlo	15,759 28,259	21							1	
illwater, Minn	1 10, 198	5								
ockton, Calif.		14	9		45			*****		* * * *
perior, Wis	47, 167	23	-		30			1	1	
racuse, N. Y	158, 559	146	4		5		18			
unton, Mass	36,610	14					1			
erre Haute, Ind	67, 361	17	1		9		i			
ffin, Obio	12,962	6								
oledo, Ohio,	202, 010	132	7	1	247	2	19		4	
peka, Kans,	49,538	22	3							
averse Uity, Mich	14,090	6				2000	1	*****		
enten, N. J.	113, 974	58	5		5		i	*****		***
oy, N. Y	78, 094	33	1							
teson, Ariz	17,324	9								
iontown, Pa	21,600				22					
dlejo, Calif	13,803	8								
rginia, Minn	15,954		2							
aco, Tex	34, 015	23								
akefield, Mass	12,947	2	1							
altham, Mass	31,011	8			5					
ashington, D. C	369, 282	292	18	1	19	.x.ces				
ashington, Pa	22,076				4					
aterbury, Conn	89, 201		7	1	2	1				
atertown, Mass	15, 188				19		3			
atertown, N. Y	30, 404	1	2						2	
ausau, Wis	19,666	7			48				2	
est Chester, Pa	13,403		1							
stfield, Mass	18, 769	4	1				*****			
st Hoboken	44, 386	19	6						3	
est New York, N. J	19,613	4			1		1			
st Orange, N. J.	13,964	2	1 1			*****	****		1	
neeling, W. Va	43,657	22			323				2 .	
ehita, Kans	73, 597	52					****			
Ikes-Barre, Pa	78, 334								1 .	
Ikinsburg, Pa	23, 899	*******								
Biamsport, Pa	34, 123			*****		*****		ATTAN .		
Imington, Del	95, 369	36						1 .		
Imington, N. C	30, 400	13	- 1				1 .		*****	
nchester, Mass	10,812	2 .							*****	
nona, Minn	18,583							*****		
nstod-Salem, N. Cnthrop, Mass.	33, 136	21 .		*****		****	2 .	*****	2	
hurn Mass	13, 105	H	1		4		1 .			
burn, Mass	16,076	18 .		*****				1 .	*****	
nkers, N. Y	166, 106	72				*****	13	1	6	
	103,066	46		*****		*****	1 .			
rk, l'a	52,770		2 .	****			27 .			
nes ille, Ohio	31, 320	12			1 .					

¹ Population Apr. 15, 1910.

FOREIGN AND INSULAR.

INFLUENZA ON VESSELS.

Steamship "Carrillo"-Kingston, Jamaica.

The steamship Carrillo from New York arrived February 2, 1920, at Kingston, Jamaica, with a history of 15 cases of influenza of mild form developing en route.

Steamship "Melita"-Plymouth, England.

According to information dated January 24, 1920, the troopship *Melita* arrived at Plymouth, England, from Bombay, with a history of about 200 cases of influenza occurring on board during the voyage.

Steamship "Roger de Luria"-Santa Cruz de Teneriffe.

Influenza was reported January 17, 1920, on the steamship Roger de Luria, at Santa Cruz de Teneriffe, Canary Islands, with 70 cases occurring among passengers and crew. The vessel received a bill of health January 12, 1920, but returned to Santa Cruz. The type of the disease was stated to be for the most part mild.

The Roger de Luria left Barcelona, Spain; December 16, 1919.

AZORES.

Quarantine Against Influenza-Ponta Delgada.

According to information dated February 7, 1920, passengers from the United States arriving at Ponta Delgada, Azores, will not be permitted to land in the event of influenza having developed on the vessel en route. Vessels arriving from any port in the United States at which influenza is reported present are made subject to three days' quarantine without regard to the occurrence or nonoccurrence of influenza on board during the voyage.

BULGARIA.

Typhus Fever-Varna,

Under date of February 18, 1920, 110 cases of typhus fever were reported at Varna, Bulgaria.

CANARY ISLANDS.

Further Relative to Influenza-Las Palmas.

A severe epidemic of influenza was reported January 17, 1920, at Las Palmas, Canary Islands, with from 10 to 20 fatalities occurring daily. (Population, about 65,000.)

CUBA.

Communicable Diseases-Habana.

Communicable diseases have been notified at Habana, as follows:

•	Jan. 21	-31, 1920.	Remain-
Disease.	New cases.	Deaths.	treat- ment, Jan. 31, 1920.
Broncho-pneumonia. Chicken pox. Diohtheria	43 11 2	42	1
Dipitheria Influenza Leprosy	212	23	13
Melaria Measles Paraty bloid fever	14		1 56
Pieuropneumonia. Pneumonia. Scarlet fever	1 7 2	1 5	
Smallpox. Typhoid fever.	. 5	1	2 29

From the interior, 18.

FEDERATED MALAY STATES.

Influenza-1918.

The first wave of influenza in 1918 in the Federated Malay States was observed in June and July. The type of the disease was stated to be mild. About the middle of September influenza became epidemic, reaching its maximum in October and terminating about the middle of November. A total of 5,643 influenza deaths was reported.

The total number of reported deaths during the year 1918 was 67,639, giving a death rate of 52.85, the population being estimated at 1,279,859. The highest death rate reported for the period 1911–1917 was for 1911 (viz. 39.11), and the lowest was for 1915 (viz. 28.9).

INFLUENZA.

The following information was taken from reports received during the week ended February 27, 1920:

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil: Porto Alegre	Nov. 1-39	• • • • • • • •	5	
Canada: Nova Scotia— Halifax Yarmouth	Feb. 1-7 Feb. 11	2 42		
Ontario— Fort William and Port Arthur.	Feb. 1-7	2		
Hamilton Sarnia Saskatchewan—	Feb. 8-14do	222	3	Present.
Moosejaw	Jan. 25-31	9		Large number of respiratory disease cases reported.

^{*} From the interior, 13.

INFLUENZA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Cuba:				
Cienfuegos	Feb. 1-7	85	3	
France:				
Marseille	Dec. 1-31		116	Jan. 26, 1920: Present.
Parls	Jan. 1-10		60	
Guatemala:				
Livingston	Feb. 5-11			Present in mild form.
Japan:				
Nagasaki	Jan. 12-18			Present.
Yokohama	Jan. 19-25			Epidemic.
Mexico:				
Piedras Negras	Feb. 8-14	100		Estimated.
Spain:				
Valencia	Jan. 18-24	7	1	
Sweden:				
Goteborg	Dec. 28-Jan. 3	27		
Malmo.	Jan. 4-10	11		
Stockholm	Dec. 28-Jan. 3	2		
Union of South Africa:	Decree out of the	-		
Durban	Nov. 1-30		2	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended February 27, 1920. CHOLERA.

Place.	Date.	Cases.	Deaths.	. Remarks.
Java:				
West Java				Dec. 19-25, 1919: Cases, 3.
Batavia	Dec. 19-25	3		-, -, -, -, -, -, -, -, -, -, -, -, -, -
Philippine Islands:			1	
Manila	Dec. 21-27	1		
Provinces				Dec. 21-27, 1919: Cases, 43:
Albay	Dec. 21-27		1	deaths, 25.
Antique		21	11	
Batangas		1		
Occidental Negros		2	3	
Sorsogon	do	13	8	
Tayabas	do	6	2	
Provinces				Dec. 28, 1919-Jan. 3, 1920: Cases,
Albay	Dec. 28-Jan. 3	17	9	127; deaths, 97.
Ambos Camarines		7	8	
Antique		71	59	
Batangas	.do	i	1	
Haila	.do	9	2	
Laguna		2 3	2	
Mountain		3	3	
Pangasinan		1		
 Sorsogon 		14	11	
Tayabas		2	2	
Russia:	1	_	-	
Novorossisk	Nov. 8-11	3		
Odessa	Oct. 25-Nov. 7	93		
Siam:		-		
Bangkok	Dec. 7-20	115	37	

PLAGUE. Brazil: Porto Alegre Egypt. Province— Nov. 1-30..... 3 Jan. 1-15, 1920: Cases, 8; deaths, 5. Assiout.....Indo-China: Saigon. Jan. 13..... 1 1 Nov. 24-Dec. 7.... 2 Java: East Java— Surabaya.... Dec. 10-16..... 239 Residency. Peru: Trujillə..... Dec. 29-Jan. 11.... 2 And in vicinity. Siam: Bangkok Straits Settlements: Singapore Dec. 14-20..... 2do

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended February 27, 1920—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada:				
British Columbia -	1		1	1
Vancouver	Jan. 11-17	4	1	3
Nova Scotia	3011. 11-11	,		
Sydney	Feb. 1-7	5		4.0
Ontario-	1 600 1 -1			
Fort William and Port	do	7		1100 100
Arthur.	Feb. 8-14	4	********	
		2		1
Ottawa	Lon 95 91	6		i
Peterborough	Jan. 25-31			1
Quebec Montreal	Feb. 1-7	3		i
China:	Peb. 1-1	3	********	1
	The 10 00			ł
Amoy	Dec. 16-22		1	
Do	Dec. 30-Jan. 5		1	
Canton	Dec. 28-Jan. 10			Prevalent.
Changsha	Jan. 4-10 Dec. 28-Jan. 3	5		
Chungking	Dec. 28-Jan. 3			Present.
Foochow				Do.
Do	Dec. 28-Jan. 10			Do.
Nanking	Jan. 4-17			Do.
Colombia:				
Barranquilla	Jan. 18-21			Stated to be epidemic.
Paris	Jan. 1-10	1	2	
Germany:				
Prussia	Oct. 19-Nov. 29	1,110	332	Nov.23-29, 1919: Cases, 52; death 12.
Greece:				
Saloniki	Dec. 22-28	9	10	*
talv:			10	
Genoa	Dec. 1-31	32	4	
Leghorn	Jan. 4-11	1		
Messina	Dec. 29-Jan. 4.	3	2	
San Fratello	do.	6 1	î.	
apan:		-		
Taiwan Island	Dec. 14-31	28	5	FO."
Do	Jan. 1-10	9	7	THE PARTY OF
ava:	400	-		100
East Java-		1		7500 (
Surabaya	Dec. 10-16	2		Residency.
West Java	200.10-10	- 1		Dec. 19-25, 1919; Cases, 32; deaths
***************************************				4.
fexico:		1	1	4.
Ciudad Juarez	Feb. 1-7	- 1	. 1	
ewfoundland:	ren. 1-4		1	
St. Johns	Dec. 31-Jan. 6	0		
St. Junis	1960. 31 - Jan. 6	2		At outports, 7 cases. Present a
		1	1	other localities. Nov. 25-Dec
		1	- 1	5, 1 case each at Princeton and
				St. Anthony. Present also a
and warmen a March A & C		-	- 1	2 other localities.
ortuguese East Africa:	D- 01 08		1	
Inhambane	Dec. 21-27	6 .		Present in 5 districts.
Mozambique	do	1 .		
	do	2].	*******	
pain:			1	
Valencia	Jan. 18-24	14	3	
unis:				
Tunis	Jan. 19-25	1	1	

TYPHUS PEVER.

	110		
1 0 1			Feb. 16, 1920; Cases, 7,500 to
	500		8,000. Estimated mortality, 46
6 2, 8	3		per cent. In repatriated soldiers.
	-		
	5		
	1 .		
	2,	2,500	2,500

Reports Received During Week Ended February 27, 1920 - Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy: Venice	Dec. 8-21	2 1		Present.

		1	1
Mexico: •	Dec. 21-27 Dec. 28-Jan. 3	1	Total, June-Dec. 27, 1919: Cases, 47; deaths, 21.

Reports Received from Dec. 27, 1919, to Feb. 20, 1920. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amov	Nov. 4-17		2	
Chosen (Korea)			-	Oct. 20-Nov. 16, 1919; Cases.
Chemulpo	Oct. 1-31	6	4	3,525; deaths, 3,144. Aug. 15-
Fusan	do	34	30	Nov. 16, 1919: Cases, 15,192
Provinces—		31	30	deaths, 9,823.
Keiki	Aug. 15-Nov. 16	224	135	
Kogen		64	38	
Kokai	do	4,015	2,770	
North Chusel	do	1	1	
North Heian	do	3,196	2,434	
North Kankyo		497	275	
North Keisho	do	63	35	
North Zenra	do	1.326	692	
South Chusei	do	930	590	
South Heian		3,031	1.858	
South Kankyo	do	870	551	
South Keisho	40		156	
South Reisho		318		
South Zenra	do	657	288	
Saloniki		1		
India				Oct. 19-Nov. 29, 1919: Deaths,
Bombay	Nov. 2-8	1	1	15,698.
Calcutta	Oct. 26-Dec. 27	181	166	
Madras		14	5	
Do		5	5	
Rangoon		5	3	
Indo-China:				
Saigon	Oct. 27-Nov. 23	5	4	
Japan:	000020			
Kobe	Nov. 24-30	2		
Taiwan	1101.21 00	-		For entire island: Oct. 22-Nov
Tokyo	Nov. 10-20	i	1	30, 1919: Cases, 651; deaths, 385.
Java:	Nov. 10-20			30, 1919. Cases, 601, deaths, 353.
East Java				Oct. 5-11, 1919: One case, 1 death.
East Java			********	
W- 4 T				At Pasoeroean.
West Java				Nov. 5-Dec. 18, 1919: Cases, 14.
Batavia	Nov. 5-Dec. 18	14		
Philippine Islands:	N - 0 D - 00	10	10	
Manila	Nov. 2-Dec. 20	19	10	N 0 D 00 1010. Ca 1 574
Provinces			********	Nov. 2-Dec. 20, 1919: Cases, 1,574;
Albay		339	239	deaths, 1,126.
Ambos Camarines		66	34	
Antique	do	139	102	
Batangas	Nov. 2-Dec. 13	38	28	
Bohol	do	34	27	
Cagayan	Nov. 3-15	35	20	
Capiz		6	5	
Cavite	Nov. 2-Dec. 6	25	16	
Cebu		23	14	
COM	a-1/00. ad	40 1		

Reports Received from Dec. 27, 1919, to Feb. 20, 1920-Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Contd.				
Provinces-Continued.				
Dayao	Nov. 9-15	6	4	
Ilocos Norte	Nov. 2-29	42	40	
Hocos Sur	Nov. 2-22	18	15	
Iloilo	Nov. 2-Dec. 20	55	33	
Isabela	Nov. 2-Dec. 13	167	77	
Laguna	Nov. 2-Dec. 20	23	17	
Mindoro	Nov. 2-Dec. 6	81	30	
Mountain	Nov. 2-Dec. 13	6	4	
Occidental Negros	Nov. 2-Dec. 20	98	50	
Pangasinan	Nov. 20-Dec. 20	60	46	
Rizal	do	41	15	
Sorsogon	Nov. 2-Dec. 13	208	139	
Tarlac	Nov. 2-22	11	11	
Tayabas	Nov. 2-Dec. 20	54	33	
Union	Nov. 9-15	5	3	
Poland:				
Garwolin				Present in November, 1919,
				Do.
Stryi				Do.
iam:				
Bangkok	Oct. 5-Dec. 15		108	
straits Settlements:			-	
Singapore	Oct. 5-Nov. 28	14	13	
umatra:				
Deli	Oct. 1-31	1	1	

PLAGUE.

British East Africa: Kisumu	Sept. 28-Nov. 1	6	6	Dec. 14-20, 1919: Present in vicinity.
Bahia	Nov. 9-15	1	1	
Ceylon: Colombo	Oct. 26-Nov. 29	18	19	
Chile: Antologasta	Dec. 8-14	1		
Chtna: Hongkong	Dec. 7-13	1		
Ecuador: Guayaquil	Nov. 1-31	2		
Egypt				Jan. 1-Dec. 25, 1919; Cases, 867; deaths, 469.
Alexandria	Dec. 3	1	1	From vessel Rachid Pacha.
Assiout	Nov. 15-21	30	17	
Greece: Saloniki		19	. 7	
India Bombay	Oct. 19-Nov. 29	5	5	Oct. 19-Dec. 20, 1919: Cases, 28,558: deaths, 21,383.
Karachi	Nov. 9-29	3	2	
Madras Presidency	Nov. 9-Dec. 27	1,068	704	
Do	Dec. 28-Jan. 3	106	74	
Do	Nov. 2-Dec. 13	18	17	Oct. 19-Nov. 1, 1919; Cases, 10; deaths, 7.
Saigon	Oct. 27-Nov. 23	8	7	
East Java				Sept. 28-Dec. 9, 1919: Cases, 1,255; deaths, 1,254. Surabaya Resi- dency.
Peru:	Nov. 23-Dec. 21	9		Present in surrounding country.
Salaverry (Trujillo) Senegal:		9	1	
Dakar Straits Settlements:	Nov. 1-30	*******	146	Including Dakar and vicinity.
Singapore	Oct. 26-Dec. 13	5	4	
Beirut	Dec. 22	29		
Constantinople	Nov. 14-Dec. 20	11		Present Dec. 11, 1919. Nov. 14-
On vessel:				20, 1919: Present in vicinity.
S. S. Kaisar-i-Hind	Nev. 28	3		At Pert Said, Egypt. From Bombay, Nov. 15, for London.

Reports Received from Dec. 27, 1919, to Feb. 20, 1920—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Departments-			1	
Algiers	Nov. 11-Dec. 31	65		1
Do	Jan. 1-10	26		i
Constantine	Nov. 11-Dec. 31 Jan. 1-10	15		
Do,	Jan. 1-10	90		1
Oran	Nov. 11-Dec. 31 Jan. 1-10	25		i
South Territory	dodo.	5	********	
Arabia:		9		
Aden	Dec. 24-30	1	1	1
Bolivia:				
La Paz	June 29-Dec. 27		216	Dec. 29, 1918-June 28, 1919: Cases 86; deaths, 44. Dec. 14-20 1919: Cases, 7; deaths, 5.
Do	Dec. 28-Jan. 3	6	4	86; deaths, 44. Dec. 14-21
	i		1	1919: Cases, 7; deaths, 5.
Brazil:				
Bahia	Oct. 26-Nov. 22	1,704	1,022	
Pernambuco	Nov. 10-16. Sept. 28-Nov. 25.	29	4	
Rio de Janeiro	Sept. 28-Nov. 25	372	105	
anada:				
British Columbia-	N 20 D 6			
Vancouver	Nov. 30-Dec. 6	1	********	
Do	Jan. 4-17	8	********	
Manitoba— Winnipeg	Jan. 11-17	2		
	Jan. 11-11	-		
Nova Scotia— Halifax	Dec. 21-27	2		
Do	Jan. 4-27	3	********	
Sydney	Dec. 7-13	1		
Do	Dec. 28-Jan. 31	4	*********	
Counties-	Deci ao suit oi			
Cumberland	Dec. 14-20			Present.
Inverness	do			Do.
Pictou	do			Do
Ontarlo				Nov. 1-29, 1919: Cases, 1,673 Nov. 30-Dec. 6, 1919: Cases 125, in 45 localities, exclusive o
				Nov. 30-Dec. 6, 1919; Cases
				Dysart and Toronto. Dec. 1 31, 1919: Cases, 1,414; deaths, 2 Dec. 28, 1919-Jan. 31, 1920 Cases, 1,161; deaths, 20.
Fort William and Port				Cases, 1,161; deaths, 20.
Fort William and Port	Ian 95-31			Cases, 1,161; deaths, 20.
Arthur	Jan. 25-31	4	•••••••	
ArthurGloucester County			**********	Cases, 1,161; deaths, 20. OctNov., 1919; Cases, 3.
ArthurGloucester County Hamilton	Dec. 14-20	3		
Arthur. Gloucester County Hamilton	Dec. 14-20	3		
Arthur. Gloucester County Hamilton	Dec. 14-20	3 17 1	# # * * * * * * * * * * * * * * * * * *	
Arthur. Gloucester County. Hamilton Do. Kingston. Do.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31.	3 17 1 4	# # * * * * * * * * * * * * * * * * * *	
Arthur. Gloucester County Hamilton Do. Kingston. Do. North Bay.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31.	3 17 1 4 3		
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31.	3 17 1 4 3		
Arthur. Gloucester County Hamilton Do. Kingston Do. North Bay. Ottawa Do.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 29-Jan. 17. Dec. 21-27.	3 17 1 4 3		
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa Do. Peterborough	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 29-Jan. 17. Dec. 21-27.	3 17 1 4 3 1 2		
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-19.	3 17 1 4 3 1 2 3 21		
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Saultste Marie	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-19.	3 17 1 4 3 1 2 3 21 1		
Arthur. Gloucester County. Hamilton. Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough. Do. Prescott. Sault Ste. Marie. Do. Do.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3	3 17 1 4 3 1 2 3 21 1		
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do Toronto	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 28-Jan. 17. Dec. 22-Jan. 17. Dec. 22-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 27. Dec. 28-Jan. 28. Dec. 28-Jan. 3. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3.	3 17 1 4 3 3 1 2 3 21 1 1 727		
Arthur. Gloucester County. Hamilton. Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough. Do. Prescott. Sault Ste. Mario. Do. Toronto. Do.	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 28-Jan. 17. Dec. 22-Jan. 17. Dec. 22-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 27. Dec. 28-Jan. 28. Dec. 28-Jan. 3. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3.	3 17 1 4 3 1 2 3 21 1 1 1 727 650	5	
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do Torouto Do Windsor	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3	3 17 1 4 3 3 1 2 3 21 1 1 727	5	
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do. Prescott Sault Ste. Marie Do. Toronto Do. Windsor Quebec	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 28-Jan. 17. Dec. 22-Jan. 17. Dec. 22-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 27. Dec. 28-Jan. 28. Dec. 28-Jan. 3. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3.	3 17 1 4 3 1 2 3 21 1 1 1 727 650	5	
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Mario Do Toronto Do Windsor Quebec Bonaventureaud Gasne	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 31. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27.	3 17 1 4 3 1 2 3 21 1 1 1 727 650 2	5	
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do Toronto Do Windsor Quebec Bonaventureand Gaspe Counties	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 128-Jan. 17. Dec. 128-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Jan. 1-31.	3 17 1 4 3 3 1 1 2 3 2 1 1 1 1 7 27 650 2	5	
Arthur. Gloucester County Gloucester County Hamilton Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do Toronto Do Windsor. Quebec Bonaventureand Gaspe Countres Montreal	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 31. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 1-31. Dec. 1-37.	3 17 1 4 4 3 1 2 2 3 21 1 1 7 27 650 2	5	
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do Torouto Do Windsor Quebec Bonaventureand Gaspe Counties Montreal Do Do	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Jan. 18-24.	3 17 1 4 3 3 1 2 3 21 1 1 727 650 2	5	
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough Do. Prescott. Sault Ste. Marie. Do Toronto. Do Windsor Quebec— Bonaventure and Gaspe Counties. Montreal. Do. Quebec.	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-17. Dec. 28-Jan. 31. Jan. 11-17. Dec. 12-20 Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27 Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27.	3 17 1 4 3 1 2 3 21 1 1 727 650 2	5	
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Mario Do Toronto Do Windsor Quebec Bonaventure and Gaspe Counties Montreal Do Quebec Do Do Quebec Do	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Jan. 18-24.	3 17 1 4 3 3 1 2 3 21 1 1 727 650 2	5.	
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough Do. Prescott. Sault Ste. Marie. Do. Toronto. Do. Windsor Quebec. Bonaventure and Gaspe Counties. Montreal. Do. Quebec. Do. Saskatchewan—	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 128-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 4-31.	3 17 1 4 3 1 2 3 21 1 1 727 650 2	5	
Arthur. Glouester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do. Toronto Do. Windsor. Quebec Bonaventure and Gaspe Counties Montreal Do. Quebec Do. Saskatchewan Mosejaw	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-Jan. 31. Jan. 11-17. Dec. 14-20. Dec. 28-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-16. Dec. 7-27. Dec. 28-Jan. 31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 4-31. Dec. 28-Jan. 31.	3 17 1 4 3 3 1 2 3 3 21 1 1 727 650 2 4 9	5	
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough Do. Prescott. Sault Ste. Mario. Do. Torouto. Do. Windsor Quebec— Bonaventureand Gaspe Counties. Montreal. Do. Quebec. Do. Saskatchewan— Moosejaw. Saskatoon.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 128-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 4-31.	3 17 1 4 3 1 2 3 21 1 1 727 650 2	5	
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough Do. Prescott. Sault Ste. Marie. Do. Toronto. Do. Windsor Quebec— Bonaventure and Gaspe Counties. Montreal. Do. Quebec. Do. Saskatchewan— Moosejaw Saskatoon. eylon:	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-17. Dec. 28-Jan. 31. Jan. 11-17. Dec. 12-20. Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Jan. 1-31. Dec. 14-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 28-Jan. 31. Dec. 28-Jan. 31. Dec. 28-Jan. 31. Dec. 28-Jan. 31. Dec. 14-20.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9	5	
Arthur. Gloucester County Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Mario Do Toronto Do Windsor Quebec Bonaventure and Gaspe Counties Montreal Do Quebec Do Saskatchewan Moosejaw Saskatoon eylon:	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-1-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 12-20 Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Jan. 4-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 28-Jan. 31. Dec. 14-20. Nov. 16-Dec. 13.	3 17 1 4 3 3 1 2 3 3 21 1 1 727 650 2 4 9		
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough Do. Prescott. Sault Ste. Marie. Do. Toronto. Do. Windsor Quebec. Bonaventure and Gaspe Counties. Montreal. Do. Quebec. Do. Saskatchewan— Moosejaw. Saskatoon. eylon: Colombo. hina:	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-1-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 12-20 Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Jan. 4-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 28-Jan. 31. Dec. 14-20. Nov. 16-Dec. 13.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9		OctNov., 1919: Cases, 3.
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Mario Do Toronto Do Windsor Quebec Bonaventure and Gaspe Counties Montreal Do Quebec Do Saskatchewan Moosejaw Saskatoon eylon: Colombo hina: Amoy	Dec. 14-20 Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-1-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 12-20 Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Jan. 4-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 28-Jan. 31. Dec. 14-20. Nov. 16-Dec. 13.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9		OctNov., 1919; Cases, 3. Present. Dec. 15; Three deaths.
Arthur. Gloucester County. Hamilton. Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough. Do. Prescott. Sault Ste. Mario. Do. Toronto. Do. Windsor Quebec. Bonaventure and Gaspe. Counties. Montreal. Do. Quebec. Do. Saskatchewan. Moosejaw. Saskatoon. eylon. Colombo. hina: Amoy. Canton. Chuneking.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-Jan. 31. Jan. 11-17. Dec. 128-Jan. 17. Dec. 128-Jan. 17. Dec. 28-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Jan. 1-31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 4-31. Dec. 14-20. Nov. 16-Dec. 13. Nov. 4-Dec. 8. Nov. 4-Dec. 8. Nov. 2-Dec. 27.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9		OctNov., 1919; Cases, 3. Present. Dec. 15; Three deaths, Present.
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa. Do. Peterborough Do. Prescott. Sault Ste. Marie. Do. Torouto. Do. Windsor Quebec— Bonaventureand Gaspe Counties. Montreal. Do. Quebec. Do. Saskatchewan— Moosejaw. Saskatoon. eylon: Colombo. hina: Amoy. Canton. Chungking.	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-Jan. 31. Jan. 11-17. Dec. 28-Jan. 17. Dec. 28-Jan. 17. Dec. 22-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 31. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 4-31. Dec. 14-20. Nov. 16-Dec. 13. Nov. 4-Dec. 8. Nov. 4-Dec. 8. Nov. 2-Dec. 27. Jan. 16-Dec. 6.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9		OctNov., 1919: Cases, 3. Present. Dec. 15: Three deaths. Do.
Arthur. Gloucester County Hamilton Do Kingston Do North Bay Ottawa Do Peterborough Do Prescott Sault Ste. Marie Do Windsor Quebec Bonaventure and Gaspe Counties Montreal Do Quebec Do Saskatchewan Moosejaw Saskatchevan Moosejaw Saskatoon eylon: Colombo hina: Amoy Ganton Chungking Foochow Nanking	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-1-27. Dec. 28-Jan. 31. Jan. 11-17. Dec. 12-20. Dec. 28-Jan. 17. Dec. 21-27. Dec. 28-Jan. 24. Jan. 4-10. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Dec. 28-Jan. 3. Dec. 7-27. Jan. 1-31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 18-24. Dec. 28-Jan. 31. Dec. 14-20. Nov. 16-Dec. 13. Nov. 4-Dec. 8. Nov. 2-Dec. 27. Jan. 16-Dec. 6. Dec. 6-Dec. 6. Dec. 6-27.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9		OctNov., 1919; Cases, 3. Present. Dec. 15; Three deaths, Present.
Arthur. Gloucester County. Hamilton Do. Kingston. Do. North Bay. Ottawa Do. Peterborough Do. Prescott Sault Ste. Mario. Do. Toronto. Do. Windsor Quebec Bonaventureand Gaspe Counties. Montreal. Do. Quebec. Do. Saskatchewan Moosejaw. Saskatoon. eylon: Colombo. hina: Amoy. Ganton. Chungkine	Dec. 14-20. Jan. 4-Feb. 7. Dec. 21-27. Dec. 22-Jan. 31. Jan. 11-17. Dec. 28-Jan. 17. Dec. 28-Jan. 17. Dec. 22-Jan. 17. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 24. Jan. 4-10. Dec. 28-Jan. 31. Dec. 7-27. Dec. 28-Jan. 31. Dec. 14-27. Jan. 1-31. Dec. 7-27. Jan. 1-31. Dec. 7-27. Jan. 18-24. Dec. 7-27. Jan. 4-31. Dec. 14-20. Nov. 16-Dec. 13. Nov. 4-Dec. 8. Nov. 4-Dec. 8. Nov. 2-Dec. 27. Jan. 16-Dec. 6.	3 17 1 4 3 3 1 1 2 3 3 21 1 1 727 650 2 2 4 9		OctNov., 1919; Cases, 3. Present. Dec. 15: Three deaths. Do. Do.

Reports Received from Dec. 27, 1919, to Feb. 20, 1920-Continued.

SMALLPOX - Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea):				4
Fusan	Oct. 1-31do	2 9	1	110
Colombia:				
Barranquilla	Nov. 16-Dec. 20	50	2	0.00
Do	Jan. 11-17			
Habana	Jan. 31	4		Children living in same house.
Egypt: Alexandria	Nov. 12-Dec. 16	23	12	
Do	Jan. 1-7	9	5	
Cairo	Oct. 1-Dec. 9	55	26	
Port Said Finland:	do	6	6	
Provinces-				
Nyland Tavastehus	July 16-31	1		
Viborg	do	23		
Finland	*******			Oct. 15-31, 1919: Cases, 6.
Provinces— Nyland	Oct. 15-31	4		Helsingfors.
Tavastehus	do	i		Rural district.
Viborg	do	1		Do.
Finland		******		Nov. 1-30, 1919: Cases, 45.
Provinces — Abo Och Borneborg	Nov. 1-15	1		
Nyland	Nov. 16-Dec. 15	24		
St. Michael,	do	7 5		
Vasa	do	11		
Viborg	Nov. 16-30	6		O
Germany	**************	*******	*********	Oct. 5-15, 1919: Cases, 32. In addition to previously reported cases; Sept. 28-Oct. 4, 1919: Cases, 26.
Greece: Saloniki	Nov. 10-Dec. 21	17	16	
Salonikiindia:		1,	10	
Bombay	Oct. 12-Dec. 20 Oct. 26-Dec. 27	38	9	
Calcutta	Nov. 23-Dec. 27	186	260	
Madras	Nov. 2-Dec. 27	31	13	
Do	Dec. 28-Jan. 3	3	1	
Rangoon	Oct. 19-Dec. 14 Oct. 27-Nov. 23	41	15	
Italy:	Oct. 21-301. 20	-		
Genoa				Province: Nov. 17-Dec. 28, 1919:
Messina	Nov. 10-Dec. 28 Nov. 1-30	55 6	8	Cases, 15; deaths, 3.
Milan Naples	Dec. 28-Jan. 10	6	10	Province of Messina. Dec. 14-
San Fratello	Dec. 1-28	49	5	28, 1919: Cases, 68.
Trieste	Jan. 3-10 Dec. 28-Jan. 4	1		
Japan:				
Kobe	Dec. 15-21	1	2	Entire island.
Taiwan	Nov. 1-20	10	2	Entire island.
East Java Residency—		******		Sept. 28-Dec. 18, 1919: Cases, 34.
Surabaya	Oct. 25-Dec. 18	24		Oct. 17-Dec. 18, 1919: Cases, 627;
West Java Batavia.	Oct. 17-Dec. 12	49	22	deaths, 147.
Mexico:				acatal, said
Acapulco	Nov. 9-15	2		
Chihuahua	Dec. 21-27 Jan. 11-17	2	1	
Ciudad Juarez	Jan. 11-17	*******	i	
Guadalajara	Dec. 1-31	.1		
Mexico City San Luis Potosi	Nov. 16-Dec. 20 Dec. 14-20	11	1	
Do	Jan. 18-24		î	
Tehuantepec	Dec. 25-31	6		
Do	Jan. 1-15	31		
Yamfara Hands		-		Dec. 13-26, at outports, 6 cases.
Newfoundland: St.Johns	Dec. 20-26	3		Present at 8 other localities. Outports, 3 cases. Present at

Reports Received from Dec. 27, 1919, to Feb. 20, 1920-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Rematks.
Panama:				
Colon	. Dec. 15-21	1		
Portugal:		_	1	
Lisbon	. Nov. 30-Dec. 27		55	1
Do	. Dec. 28-Jan. 17		44	
Oporto	Dec. 7-20	5	5	1
Portuguese East Africa:	1			
Lourenco Marques	Nov. 23-Dec. 20	9		Present in 5 districts Nov. 9-Dec
Districts-				20, 1919, with 56 reported cases
Gaza	Dec. 7-13			Present.
	do			Do.
Mozambique	do			Do.
Quelimane	do			Do.
Tete	do			Do.
Towns-				1
Inhambane	do	1		
Mozambique	do	1		
	do	2		
	do	1		
Spain:				
Barcelona	Nov. 6-Dec. 27		26	
Do			16	
Bilbao	Nov. 1-Dec. 20		4	
Cadiz	Oct. 1-Nov. 30		6	
Valencia	Nov. 10-Dec. 27	39	9	
Do	Dec. 28-Jan. 17	24		
Vigo	Nov. 18-Dec. 27	14		
Do	Dec, 28-Jan, 3	2	2	Jan. 11-17, 1920: Present in
Sumatra:				vicinity.
Medan	Oct. 1-31	8		
Funis:	1			
Tunis	Dec. 23-29	1		
Curkey:			1	
Constantinople	Nov. 9-Dec. 14	27		
Union of South Africa:				
Johannesburg	Oet.1-31	10		
On vessel:				
S. S. Roggeveen		1		New Caledonia. Case left at
				Noumea. Vessel arrived at
S. S. Sarcoxie	Dec. 23	1		Sydney, Jan. 2, 1920. At Ponta Delgada, Azores, From Rotterdam for New York.

. TYPHUS FEVER.

Algeria:				
Departments	Dec. 14-31	2		
Constantine	Nov. 11-Dec. 31	2	*********	
Do	Jan. 1-10.	ĩ		
Oran	Nov. 21-Dec. 11	5		
Austria:				
Vienna	Sept. 7-14	5		Sept. 7-14, 1919; Cases, 7,
Bolivia:				
La Paz	June 29-Dec. 20	30	31	Dec. 29, 1918-June 28, 1919; Deaths, 52.
Do	Jan. 4-10	2	1	
Bulgaria:				
Sofia	Dec. 21-31	1	1.	
Do	Jan. 1-10	2		
Canada:				
				Dec. 1-31, 1919: One case.
Chile:				
	Nov. 17-Dec. 14	14		
Santiago				Jan. 12-Sept. 30, 1919; Cases,
				5,153; deaths, 1,023. Outbreak
Valparaiso	Nov. 9-Dec. 27	955	114	in October, 1918.
· aiparaiso	NOV. 9-Dec. 21	900	114	Dec. 1-13, 1919: Cases, 700; deaths, 18.
Do	Dec. 28-Jan. 11	90	23	16.

Reports Received from Dec. 27, 1919, to Feb. 20, 1920-Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung	Nov. 3-Dec. 14	2		
Prague	Dec. 21-27	1		
Egypt: Alexandria		6	1	
Do		5 98	20	
Cairo		2	39	
Port Said Finland: Province—	. Oct. 1-Dec. 2	-		
Viborg	July 16-31	2		
Germany				Oct. 5-25, 1919: Cases, 10-civi population, 3; military, 7.
Great Britain:	Dec. 28-Jan. 3	1	1	
Belfast		2	1	
Greece:	1	_		
Cavalla		1		
DramaSaloniki		1	43	
Hungary	Oct. 6- Dec. 21		10	Aug. 25-Sept. 14, 1919: Cases, 6.
Italy:				ing. 20 sept. 14 total cases, se
Trieste		3		
Venice		4	1	
Japan:		,		
Nagasaki	Dec. 1-28	4	2	
Mexico:			- 1	
Chihuahua		2		
Do			1	
Mexico City				
Saltillo		2	1	Present.
Do				Do.
Paraguay:	Dec. 25-Jun. 51			1
Asuncion	Nov. 30-Dec. 6	1		
Peru:				
Cerro de Pasco,	Dec. 7-13	1		
Portugal:				
Lisbon	Dec. 6-12		2	
Spain: Barcelona	Nov. 20-26	7		
Corunna		2		
Tunis:		-		
Tunis	Dec. 14-20	1		
Do		2	1	
Turkey:				
Constantinople	Nov. 14-Dec. 27	49		

YELLOW FEVER.

Brazil: Bahia Mexico: Campeche. Merida	Oct. 26-Nov. 8 Dec. 20 Dec. 7-20	1 1 3	2	The cases were sent from Opi- chen, vicinity of Muna. One death in case from Muna. To- talto Dec. 20: Cases, 46; deaths, 20.
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